

SECTION-VII  
**INSTRUMENTATION CABLES**

---



# PRODUCTS

**RE-Y(St) Y - Single & Multi - Pair**

Page No.: 192 - 195

**RE-Y(St) Y - PiMF Multi - Pair**

Page No.: 196 - 199

**RE-2X(St) Y - Single & Multi - Pair**

Page No.: 200 - 203

**RE-2X(St) Y -PiMF - Multi - Pair**

Page No.: 204 - 207

**RE-Y(St) Y -SWAY - Singal & Multi - Pair**

Page No.: 208 - 211

**RE-Y(St) Y -SWAY - PiMF - Multi - Pair**

Page No.: 212 - 215

**RE-2X(St) YSWAY - Single & Multi - Pair**

Page No.: 216 - 219

**RE-2X(St) YSWAY - PiMF - Multi - Pair**

Page No.: 220 - 223

**RE-Y(St) Y - Multicore**

Page No.: 224 - 227

**RE-2X(St) Y - Multicore**

Page No.: 228 - 231

**RE-Y(St) YSWAY- Multicore**

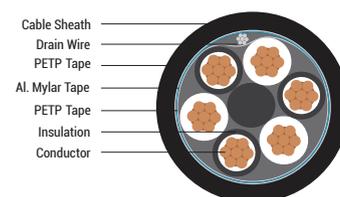
Page No.: 232 - 235

**RE-2X(St) YSWAY- Multicore**

Page No.: 236 - 239

# RE-Y(St)Y - SINGLE & MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7.

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Polyvinyl chloride PVC

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Cable Sheath** : Polyvinyl Chloride PVC

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +70°C

**Bending Radius** : 7.5 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request

**Marking** : RR KABEL RE-Y(St)Y nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage V <sub>rms</sub> (Core-Core) | Test Voltage V <sub>rms</sub> (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|---|---|
| 0.5                             | 2                  | 7/0.3                                     | 36   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 0.5                             | 5                  | 16/0.2                                    | 39   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 5                  | 24/0.2                                    | 26   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |

\*For multi-pair maximum resistance shall be increased by 2%

## Cable Design Parameters

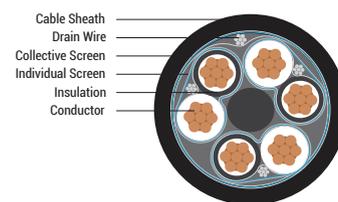
|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070150121050 | 1 x 2 x 0.5   | 0.44                           | 1.0                           | 6.4                         | 48.2                         |
|                   | 070150221050 | 2 x 2 x 0.5   | 0.44                           | 1.0                           | 7.7                         | 74.2                         |
|                   | 070150321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.0                         | 100.8                        |
|                   | 070150421050 | 4 x 2 x 0.5   | 0.44                           | 1.1                           | 10.1                        | 126.5                        |
|                   | 070150521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 11.1                        | 151.8                        |
|                   | 070150821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 13.6                        | 225.5                        |
|                   | 070151021050 | 10 x 2 x 0.5  | 0.44                           | 1.3                           | 15.0                        | 274.0                        |
|                   | 070151221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 16.2                        | 321.9                        |
|                   | 070151621050 | 16 x 2 x 0.5  | 0.44                           | 1.4                           | 18.4                        | 416.1                        |
|                   | 070152021050 | 20 x 2 x 0.5  | 0.44                           | 1.5                           | 20.4                        | 510.0                        |
|                   | 070152421050 | 24 x 2 x 0.5  | 0.44                           | 1.6                           | 22.2                        | 603.1                        |
|                   | 070150121075 | 1 x 2 x 0.75  | 0.44                           | 1.0                           | 6.8                         | 56.7                         |
|                   | 070150221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.3                         | 89.5                         |
|                   | 070150321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 9.7                         | 122.9                        |
|                   | 070150421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 10.9                        | 155.8                        |
|                   | 070150521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 12.0                        | 188                          |
|                   | 070150821075 | 8 x 2 x 0.75  | 0.44                           | 1.3                           | 14.7                        | 282.2                        |
|                   | 070151021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 16.2                        | 345                          |
|                   | 070151221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.4                           | 17.6                        | 406.3                        |
|                   | 070151621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.0                        | 527.7                        |
|                   | 070152021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.6                           | 22.2                        | 649.5                        |
|                   | 070152421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.6                           | 24.1                        | 769.0                        |
|                   | 070150120001 | 1 x 2 x 1   | 0.44                           | 1.0                           | 7.1                         | 64.1                         |
|                   | 070150220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 8.7                         | 103.4                        |
|                   | 070150320001 | 3 x 2 x 1   | 0.44                           | 1.1                           | 10.2                        | 143.1                        |
|                   | 070150420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 11.5                        | 182.2                        |
|                   | 070150520001 | 5 x 2 x 1   | 0.44                           | 1.2                           | 12.6                        | 220.5                        |
|                   | 070150820001 | 8 x 2 x 1   | 0.44                           | 1.3                           | 15.5                        | 333.8                        |
|                   | 070151020001 | 10 x 2 x 1  | 0.44                           | 1.4                           | 17.1                        | 408.9                        |
|                   | 070151220001 | 12 x 2 x 1  | 0.44                           | 1.4                           | 18.6                        | 482.3                        |
|                   | 070151620001 | 16 x 2 x 1  | 0.44                           | 1.5                           | 21.2                        | 629.0                        |
|                   | 070152020001 | 20 x 2 x 1  | 0.44                           | 1.6                           | 23.5                        | 776.5                        |
| 070152420001      | 24 x 2 x 1   | 0.44  | 1.7                            | 25.5                          | 920.3                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070120121050 | 1 x 2 x 0.5   | 0.44                           | 1.0                           | 6.4                         | 48.0                         |
|                   | 070120221050 | 2 x 2 x 0.5   | 0.44                           | 1.0                           | 7.7                         | 73.9                         |
|                   | 070120321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.0                         | 100.4                        |
|                   | 070120421050 | 4 x 2 x 0.5   | 0.44                           | 1.1                           | 10.1                        | 125.9                        |
|                   | 070120521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 11.1                        | 151.2                        |
|                   | 070120821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 13.6                        | 224.5                        |
|                   | 070121021050 | 10 x 2 x 0.5  | 0.44                           | 1.3                           | 15                          | 272.7                        |
|                   | 070121221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 16.2                        | 320.4                        |
|                   | 070121621050 | 16 x 2 x 0.5  | 0.44                           | 1.4                           | 18.4                        | 414.1                        |
|                   | 070122021050 | 20 x 2 x 0.5  | 0.44                           | 1.5                           | 20.4                        | 507.5                        |
|                   | 070122421050 | 24 x 2 x 0.5  | 0.44                           | 1.6                           | 22.2                        | 600.1                        |
|                   | 070120121075 | 1 x 2 x 0.75  | 0.44                           | 1.0                           | 6.8                         | 56.7                         |
|                   | 070120221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.3                         | 89.5                         |
|                   | 070120321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 9.7                         | 123.4                        |
|                   | 070120421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 10.9                        | 155.9                        |
|                   | 070120521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 12.0                        | 188                          |
|                   | 070120821075 | 8 x 2 x 0.75  | 0.44                           | 1.3                           | 14.7                        | 282.4                        |
|                   | 070121021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 16.3                        | 345.1                        |
|                   | 070121221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.4                           | 17.6                        | 406.4                        |
|                   | 070121621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.1                        | 527.9                        |
|                   | 070122021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.6                           | 22.2                        | 649.7                        |
|                   | 070122421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.6                           | 24.2                        | 769.4                        |
|                   | 070120120001 | 1 x 2 x 1   | 0.44                           | 1.0                           | 7.2                         | 65.2                         |
|                   | 070120220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 8.8                         | 105.6                        |
|                   | 070120320001 | 3 x 2 x 1   | 0.44                           | 1.1                           | 10.4                        | 146.7                        |
|                   | 070120420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 11.7                        | 186.8                        |
|                   | 070120520001 | 5 x 2 x 1   | 0.44                           | 1.2                           | 12.9                        | 226.1                        |
|                   | 070120820001 | 8 x 2 x 1   | 0.44                           | 1.3                           | 15.8                        | 342.3                        |
|                   | 070121020001 | 10 x 2 x 1  | 0.44                           | 1.4                           | 17.4                        | 419.3                        |
|                   | 070121220001 | 12 x 2 x 1  | 0.44                           | 1.5                           | 19                          | 495.5                        |
|                   | 070121620001 | 16 x 2 x 1  | 0.44                           | 1.6                           | 21.6                        | 646                          |
|                   | 070122020001 | 20 x 2 x 1  | 0.44                           | 1.6                           | 23.9                        | 796.2                        |
|                   | 070122420001 | 24 x 2 x 1  | 0.44                           | 1.7                           | 26.0                        | 945.0                        |
|                   | 070120121105 | 1 x 2 x 1.5   | 0.44                           | 1.0                           | 7.9                         | 81.9                         |
| 070120221105      | 2 x 2 x 1.5  | 0.44  | 1.1                            | 9.7                           | 136.4                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070120321105 | 3 x 2 x 1.5   | 0.44                           | 1.2                           | 11.5                        | 191.5                        |
|                   | 070120421105 | 4 x 2 x 1.5   | 0.44                           | 1.2                           | 13.0                        | 246.0                        |
|                   | 070120521105 | 5 x 2 x 1.5   | 0.44                           | 1.3                           | 14.3                        | 299.7                        |
|                   | 070120821105 | 8 x 2 x 1.5   | 0.44                           | 1.4                           | 17.7                        | 457.6                        |
|                   | 070121021105 | 10 x 2 x 1.5  | 0.44                           | 1.5                           | 19.5                        | 563.2                        |
|                   | 070121221105 | 12 x 2 x 1.5  | 0.44                           | 1.5                           | 21.2                        | 666.6                        |
|                   | 070121621105 | 16 x 2 x 1.5  | 0.44                           | 1.6                           | 24.2                        | 872.3                        |
|                   | 070122021105 | 20 x 2 x 1.5  | 0.44                           | 1.7                           | 26.8                        | 1079.7                       |
|                   | 070122421105 | 24 x 2 x 1.5  | 0.44                           | 1.8                           | 29.2                        | 1283.9                       |
|                   | 070120121205 | 1 x 2 x 2.5   | 0.53                           | 1.1                           | 9.3                         | 113.8                        |
|                   | 070120221205 | 2 x 2 x 2.5   | 0.53                           | 1.2                           | 11.5                        | 195.3                        |
|                   | 070120321205 | 3 x 2 x 2.5   | 0.53                           | 1.3                           | 13.6                        | 278.3                        |
|                   | 070120421205 | 4 x 2 x 2.5   | 0.53                           | 1.3                           | 15.5                        | 360.2                        |
|                   | 070120521205 | 5 x 2 x 2.5   | 0.53                           | 1.4                           | 17.1                        | 441.1                        |
|                   | 070120821205 | 8 x 2 x 2.5   | 0.53                           | 1.5                           | 21.1                        | 680.6                        |
|                   | 070121021205 | 10 x 2 x 2.5  | 0.53                           | 1.6                           | 23.4                        | 840.3                        |
|                   | 070121221205 | 12 x 2 x 2.5  | 0.53                           | 1.7                           | 25.5                        | 998.3                        |
|                   | 070121621205 | 16 x 2 x 2.5  | 0.53                           | 1.8                           | 29.1                        | 1310.9                       |
|                   | 070122021205 | 20 x 2 x 2.5  | 0.53                           | 1.9                           | 32.3                        | 1627.1                       |
|                   | 070122421205 | 24 x 2 x 2.5  | 0.53                           | 2.1                           | 35.2                        | 1938.7                       |

# RE-Y(St)Y PiMF - MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Polyvinyl Chloride PVC

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Individual Screen** : Aluminium / PETP tape over tinned copper drain wire, plastic tape under and above screen

**Assembly** : Concentric layers

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Cable Sheath** : Polyvinyl chloride PVC

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +70°C

**Bending Radius** : 7.5 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

Marking : RR KABEL RE-Y(St)Y PiMF nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage $V_{rms}$ (Core-Core) | Test Voltage $V_{rms}$ (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|------------------------------------|--------------------------------------|
| 0.5                             | 2                  | 7/0.3                                     | 36.7   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 0.5                             | 5                  | 16/0.2                                    | 39.8   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 2                  | 7/0.37                                    | 25.0   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 5                  | 24/0.2                                    | 26.5   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 1                               | 2                  | 7/0.43                                    | 18.5   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 1                               | 5                  | 32/0.2                                    | 19.9   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 1.5                             | 2                  | 7/0.53                                    | 12.3   | 40                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 2.5                             | 2                  | 7/0.67                                    | 7.6  | 60                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |

## Cable Design Parameters

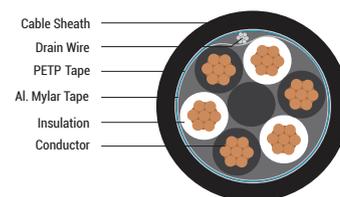
|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070250221050 | 2 x 2 x 0.5   | 0.44                           | 1.1                           | 8.1                         | 77                           |
|                   | 070250321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.7                         | 104.8                        |
|                   | 070250421050 | 4 x 2 x 0.5   | 0.44                           | 1.2                           | 11                          | 132.3                        |
|                   | 070250521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 12.2                        | 159.7                        |
|                   | 070250821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 15.3                        | 239.4                        |
|                   | 070251021050 | 10 x 2 x 0.5  | 0.44                           | 1.4                           | 17.1                        | 292.9                        |
|                   | 070251221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 18.8                        | 345.5                        |
|                   | 070251621050 | 16 x 2 x 0.5  | 0.44                           | 1.6                           | 21.9                        | 451.5                        |
|                   | 070252021050 | 20 x 2 x 0.5  | 0.44                           | 1.7                           | 24.7                        | 557.4                        |
|                   | 070252421050 | 24 x 2 x 0.5  | 0.44                           | 1.8                           | 27.3                        | 663.8                        |
|                   | 070250221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.7                         | 92.4                         |
|                   | 070250321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 10.4                        | 127.6                        |
|                   | 070250421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 11.8                        | 161.9                        |
|                   | 070250521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 13.1                        | 196.1                        |
|                   | 070250821075 | 8 x 2 x 0.75  | 0.44                           | 1.4                           | 16.4                        | 296.8                        |
|                   | 070251021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 18.4                        | 364.9                        |
|                   | 070251221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.2                        | 431                          |
|                   | 070251621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.6                           | 23.5                        | 563.9                        |
|                   | 070252021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.7                           | 26.5                        | 699.6                        |
|                   | 070252421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.8                           | 29.3                        | 833.1                        |
|                   | 070250220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 9.1                         | 105.9                        |
|                   | 070250320001 | 3 x 2 x 1   | 0.44                           | 1.2                           | 10.9                        | 147.9                        |
|                   | 070250420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 12.4                        | 188.4                        |
|                   | 070250520001 | 5 x 2 x 1   | 0.44                           | 1.3                           | 13.7                        | 228.9                        |
|                   | 070250820001 | 8 x 2 x 1   | 0.44                           | 1.4                           | 17.2                        | 348.8                        |
|                   | 070251020001 | 10 x 2 x 1  | 0.44                           | 1.5                           | 19.3                        | 429.4                        |
|                   | 070251220001 | 12 x 2 x 1  | 0.44                           | 1.5                           | 21.2                        | 508.8                        |
|                   | 070251620001 | 16 x 2 x 1  | 0.44                           | 1.7                           | 24.7                        | 667.6                        |
|                   | 070252020001 | 20 x 2 x 1  | 0.44                           | 1.8                           | 27.8                        | 828.6                        |
|                   | 070252420001 | 24 x 2 x 1  | 0.44                           | 1.9                           | 30.7                        | 986.8                        |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070220221050 | 2 x 2 x 0.5   | 0.44                           | 1.1                           | 8.1                         | 76.7                         |
|                   | 070220321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.7                         | 104.4                        |
|                   | 070220421050 | 4 x 2 x 0.5   | 0.44                           | 1.2                           | 11.0                        | 131.8                        |
|                   | 070220521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 12.2                        | 159.0                        |
|                   | 070220821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 15.3                        | 238.4                        |
|                   | 070221021050 | 10 x 2 x 0.5  | 0.44                           | 1.4                           | 17.1                        | 291.6                        |
|                   | 070221221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 18.8                        | 344.0                        |
|                   | 070221621050 | 16 x 2 x 0.5  | 0.44                           | 1.6                           | 21.9                        | 449.5                        |
|                   | 070222021050 | 20 x 2 x 0.5  | 0.44                           | 1.7                           | 24.7                        | 555.0                        |
|                   | 070222421050 | 24 x 2 x 0.5  | 0.44                           | 1.8                           | 27.3                        | 660.8                        |
|                   | 070220221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.7                         | 92.4                         |
|                   | 070220321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 10.4                        | 127.6                        |
|                   | 070220421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 11.8                        | 162.0                        |
|                   | 070220521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 13.1                        | 196.2                        |
|                   | 070220821075 | 8 x 2 x 0.75  | 0.44                           | 1.4                           | 16.4                        | 296.9                        |
|                   | 070221021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 18.4                        | 365.0                        |
|                   | 070221221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.2                        | 431.2                        |
|                   | 070221621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.6                           | 23.5                        | 565.3                        |
|                   | 070222021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.7                           | 26.5                        | 699.9                        |
|                   | 070222421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.8                           | 29.3                        | 833.5                        |
|                   | 070220220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 9.3                         | 108.5                        |
|                   | 070220320001 | 3 x 2 x 1   | 0.44                           | 1.2                           | 11.0                        | 151.0                        |
|                   | 070220420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 12.6                        | 193.1                        |
|                   | 070220520001 | 5 x 2 x 1   | 0.44                           | 1.3                           | 14.0                        | 234.6                        |
|                   | 070220820001 | 8 x 2 x 1   | 0.44                           | 1.4                           | 17.5                        | 357.5                        |
|                   | 070221020001 | 10 x 2 x 1  | 0.44                           | 1.5                           | 19.6                        | 440.1                        |
|                   | 070221220001 | 12 x 2 x 1  | 0.44                           | 1.5                           | 21.5                        | 521.4                        |
|                   | 070221620001 | 16 x 2 x 1  | 0.44                           | 1.7                           | 25.0                        | 684.0                        |
|                   | 070222020001 | 20 x 2 x 1  | 0.44                           | 1.8                           | 28.2                        | 848.9                        |
|                   | 070222420001 | 24 x 2 x 1  | 0.44                           | 1.9                           | 31.2                        | 1012.4                       |
|                   | 070220221105 | 2 x 2 x 1.5   | 0.44                           | 1.1                           | 10.2                        | 139.0                        |
|                   | 070220321105 | 3 x 2 x 1.5   | 0.44                           | 1.2                           | 12.2                        | 196.6                        |
|                   | 070220421105 | 4 x 2 x 1.5   | 0.44                           | 1.3                           | 13.9                        | 252.7                        |
| 070220521105      | 5 x 2 x 1.5  | 0.44  | 1.3                            | 15.4                          | 308.7                       |                              |
| 070220821105      | 8 x 2 x 1.5  | 0.44  | 1.5                            | 19.4                          | 473.9                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070221021105 | 10 x 2 x 1.5  | 0.44                           | 1.6                           | 21.7                        | 585.5                        |
|                   | 070221221105 | 12 x 2 x 1.5  | 0.44                           | 1.6                           | 23.8                        | 695.5                        |
|                   | 070221621105 | 16 x 2 x 1.5  | 0.44                           | 1.8                           | 27.7                        | 914.4                        |
|                   | 070222021105 | 20 x 2 x 1.5  | 0.44                           | 1.9                           | 31.2                        | 1136.7                       |
|                   | 070222421105 | 24 x 2 x 1.5  | 0.44                           | 2.0                           | 34.4                        | 1357                         |
|                   | 070220221205 | 2 x 2 x 2.5   | 0.53                           | 1.2                           | 11.9                        | 198.7                        |
|                   | 070220321205 | 3 x 2 x 2.5   | 0.53                           | 1.3                           | 14.3                        | 283.3                        |
|                   | 070220421205 | 4 x 2 x 2.5   | 0.53                           | 1.4                           | 16.3                        | 367.6                        |
|                   | 070220521205 | 5 x 2 x 2.5   | 0.53                           | 1.4                           | 18.2                        | 451.1                        |
|                   | 070220821205 | 8 x 2 x 2.5   | 0.53                           | 1.6                           | 22.8                        | 698.8                        |
|                   | 070221021205 | 10 x 2 x 2.5  | 0.53                           | 1.7                           | 25.5                        | 865.5                        |
|                   | 070221221205 | 12 x 2 x 2.5  | 0.53                           | 1.8                           | 28.0                        | 1029.7                       |
|                   | 070221621205 | 16 x 2 x 2.5  | 0.53                           | 2.0                           | 32.6                        | 1358.9                       |
|                   | 070222021205 | 20 x 2 x 2.5  | 0.53                           | 2.1                           | 36.6                        | 1692.1                       |
|                   | 070222421205 | 24 x 2 x 2.5  | 0.53                           | 2.2                           | 40.4                        | 2022.3                       |

# RE-2X(St)Y - SINGLE & MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Crosslinked polyethylene XLPE

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Cable Sheath** : Polyvinyl chloride PVC (Also available in halogen free construction on request.)

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +90°C

**Bending Radius** : 7.5 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

**Marking** : RR KABEL RE-2X(St)Y nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage V <sub>rms</sub> (Core-Core) | Test Voltage V <sub>rms</sub> (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|---|---|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |

\*For multi-pair maximum resistance shall be increased by 2%.

## Cable Design Parameters

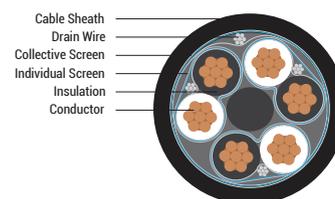
|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070350121050 | 1 x 2 x 0.5   | 0.44                           | 1.0                           | 6.4                         | 45.1                         |
|                   | 070350221050 | 2 x 2 x 0.5   | 0.44                           | 1.0                           | 7.7                         | 67.9                         |
|                   | 070350321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.0                         | 91.3                         |
|                   | 070350421050 | 4 x 2 x 0.5   | 0.44                           | 1.1                           | 10.1                        | 113.8                        |
|                   | 070350521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 11.1                        | 136.0                        |
|                   | 070350821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 13.6                        | 200.1                        |
|                   | 070351021050 | 10 x 2 x 0.5  | 0.44                           | 1.3                           | 15.0                        | 242.3                        |
|                   | 070351221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 16.2                        | 283.9                        |
|                   | 070351621050 | 16 x 2 x 0.5  | 0.44                           | 1.4                           | 18.4                        | 365.3                        |
|                   | 070352021050 | 20 x 2 x 0.5  | 0.44                           | 1.5                           | 20.4                        | 446.6                        |
|                   | 070352421050 | 24 x 2 x 0.5  | 0.44                           | 1.6                           | 22.2                        | 527.1                        |
|                   | 070350121075 | 1 x 2 x 0.75  | 0.44                           | 1.0                           | 6.8                         | 53.1                         |
|                   | 070350221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.3                         | 82.2                         |
|                   | 070350321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 9.7                         | 112.0                        |
|                   | 070350421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 10.9                        | 141.3                        |
|                   | 070350521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 12.0                        | 169.8                        |
|                   | 070350821075 | 8 x 2 x 0.75  | 0.44                           | 1.3                           | 14.7                        | 253.1                        |
|                   | 070351021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 16.2                        | 308.6                        |
|                   | 070351221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.4                           | 17.6                        | 362.6                        |
|                   | 070351621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.0                        | 469.5                        |
|                   | 070352021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.6                           | 22.2                        | 576.7                        |
|                   | 070352421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.6                           | 24.1                        | 681.7                        |
|                   | 070350120001 | 1 x 2 x 1   | 0.44                           | 1.0                           | 7.1                         | 60.1                         |
|                   | 070350220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 8.7                         | 95.5                         |
|                   | 070350320001 | 3 x 2 x 1   | 0.44                           | 1.1                           | 10.2                        | 131.2                        |
|                   | 070350420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 11.5                        | 166.3                        |
|                   | 070350520001 | 5 x 2 x 1   | 0.44                           | 1.2                           | 12.6                        | 200.6                        |
|                   | 070350820001 | 8 x 2 x 1   | 0.44                           | 1.3                           | 15.5                        | 302.0                        |
|                   | 070351020001 | 10 x 2 x 1  | 0.44                           | 1.4                           | 17.1                        | 369.2                        |
|                   | 070351220001 | 12 x 2 x 1  | 0.44                           | 1.4                           | 18.6                        | 434.7                        |
|                   | 070351620001 | 16 x 2 x 1  | 0.44                           | 1.5                           | 21.2                        | 565.4                        |
|                   | 070352020001 | 20 x 2 x 1  | 0.44                           | 1.6                           | 23.5                        | 697.1                        |
| 070352420001      | 24 x 2 x 1   | 0.44  | 1.7                            | 25.5                          | 825.0                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070320121050 | 1 x 2 x 0.5   | 0.44                           | 1.0                           | 6.4                         | 44.9                         |
|                   | 070320221050 | 2 x 2 x 0.5   | 0.44                           | 1.0                           | 7.7                         | 67.6                         |
|                   | 070320321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.0                         | 90.8                         |
|                   | 070320421050 | 4 x 2 x 0.5   | 0.44                           | 1.1                           | 10.1                        | 113.2                        |
|                   | 070320521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 11.1                        | 135.3                        |
|                   | 070320821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 13.6                        | 199                          |
|                   | 070321021050 | 10 x 2 x 0.5  | 0.44                           | 1.3                           | 15.0                        | 240.9                        |
|                   | 070321221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 16.2                        | 282.3                        |
|                   | 070321621050 | 16 x 2 x 0.5  | 0.44                           | 1.4                           | 18.4                        | 363.2                        |
|                   | 070322021050 | 20 x 2 x 0.5  | 0.44                           | 1.5                           | 20.4                        | 443.9                        |
|                   | 070322421050 | 24 x 2 x 0.5  | 0.44                           | 1.6                           | 22.2                        | 523.9                        |
|                   | 070320121075 | 1 x 2 x 0.75  | 0.44                           | 1.0                           | 6.8                         | 53                           |
|                   | 070320221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.3                         | 82.2                         |
|                   | 070320321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 9.7                         | 112.4                        |
|                   | 070320421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 10.9                        | 141.2                        |
|                   | 070320521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 12.0                        | 169.7                        |
|                   | 070320821075 | 8 x 2 x 0.75  | 0.44                           | 1.3                           | 14.7                        | 253                          |
|                   | 070321021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 16.3                        | 308.4                        |
|                   | 070321221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.4                           | 17.6                        | 362.4                        |
|                   | 070321621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.1                        | 469.2                        |
|                   | 070322021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.6                           | 22.2                        | 576.3                        |
|                   | 070322421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.6                           | 24.2                        | 681.2                        |
|                   | 070320120001 | 1 x 2 x 1   | 0.44                           | 1.0                           | 7.2                         | 61.1                         |
|                   | 070320220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 8.8                         | 97.2                         |
|                   | 070320320001 | 3 x 2 x 1   | 0.44                           | 1.1                           | 10.4                        | 134.2                        |
|                   | 070320420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 11.7                        | 170.1                        |
|                   | 070320520001 | 5 x 2 x 1   | 0.44                           | 1.2                           | 12.9                        | 205.2                        |
|                   | 070320820001 | 8 x 2 x 1   | 0.44                           | 1.3                           | 15.8                        | 308.9                        |
|                   | 070321020001 | 10 x 2 x 1  | 0.44                           | 1.4                           | 17.4                        | 377.7                        |
|                   | 070321220001 | 12 x 2 x 1  | 0.44                           | 1.5                           | 19.0                        | 445.5                        |
|                   | 070321620001 | 16 x 2 x 1  | 0.44                           | 1.6                           | 21.6                        | 579.4                        |
|                   | 070322020001 | 20 x 2 x 1  | 0.44                           | 1.6                           | 23.9                        | 712.9                        |
|                   | 070322420001 | 24 x 2 x 1  | 0.44                           | 1.7                           | 26.0                        | 845                          |
| 070320121105      | 1 x 2 x 1.5  | 0.44  | 1.0                            | 7.9                           | 76.8                        |                              |
| 070320221105      | 2 x 2 x 1.5  | 0.44  | 1.1                            | 9.7                           | 126.3                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070320321105 | 3 x 2 x 1.5   | 0.44                           | 1.2                           | 11.5                        | 176.3                        |
|                   | 070320421105 | 4 x 2 x 1.5   | 0.44                           | 1.2                           | 13.0                        | 225.7                        |
|                   | 070320521105 | 5 x 2 x 1.5   | 0.44                           | 1.3                           | 14.3                        | 274.3                        |
|                   | 070320821105 | 8 x 2 x 1.5   | 0.44                           | 1.4                           | 17.7                        | 417                          |
|                   | 070321021105 | 10 x 2 x 1.5  | 0.44                           | 1.5                           | 19.5                        | 512.4                        |
|                   | 070321221105 | 12 x 2 x 1.5  | 0.44                           | 1.5                           | 21.2                        | 605.6                        |
|                   | 070321621105 | 16 x 2 x 1.5  | 0.44                           | 1.6                           | 24.2                        | 791                          |
|                   | 070322021105 | 20 x 2 x 1.5  | 0.44                           | 1.7                           | 26.8                        | 978.1                        |
|                   | 070322421105 | 24 x 2 x 1.5  | 0.44                           | 1.8                           | 29.2                        | 1162                         |
|                   | 070320121205 | 1 x 2 x 2.5   | 0.53                           | 1.1                           | 9.3                         | 106.4                        |
|                   | 070320221205 | 2 x 2 x 2.5   | 0.53                           | 1.2                           | 11.5                        | 180.6                        |
|                   | 070320321205 | 3 x 2 x 2.5   | 0.53                           | 1.3                           | 13.6                        | 256.2                        |
|                   | 070320421205 | 4 x 2 x 2.5   | 0.53                           | 1.3                           | 15.5                        | 330.7                        |
|                   | 070320521205 | 5 x 2 x 2.5   | 0.53                           | 1.4                           | 17.1                        | 404.3                        |
|                   | 070320821205 | 8 x 2 x 2.5   | 0.53                           | 1.5                           | 21.1                        | 621.6                        |
|                   | 070321021205 | 10 x 2 x 2.5  | 0.53                           | 1.6                           | 23.4                        | 766.7                        |
|                   | 070321221205 | 12 x 2 x 2.5  | 0.53                           | 1.7                           | 25.5                        | 909.9                        |
|                   | 070321621205 | 16 x 2 x 2.5  | 0.53                           | 1.8                           | 29.1                        | 1193.1                       |
|                   | 070322021205 | 20 x 2 x 2.5  | 0.53                           | 1.9                           | 32.3                        | 1479.8                       |
|                   | 070322421205 | 24 x 2 x 2.5  | 0.53                           | 2.1                           | 35.2                        | 1762.0                       |

# RE-2X(St)Y PiMF - MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Crosslinked polyethylene XLPE

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Individual Screen** : Aluminium / PETP tape over tinned copper drain wire, plastic tape under and above screen

**Assembly** : Concentric layers

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Cable Sheath** : Polyvinyl chloride PVC (Also available in halogen free construction on request.)

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +90°C

**Bending Radius** : 7.5 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

Marking : RR KABEL RE-2X(St)Y PiMF nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage $V_{rms}$ (Core-Core) | Test Voltage $V_{rms}$ (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|------------------------------------|--------------------------------------|
| 0.5                             | 2                  | 7/0.3                                     | 36.7   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 0.5                             | 5                  | 16/0.2                                    | 39.8   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 2                  | 7/0.37                                    | 25   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 5                  | 24/0.2                                    | 26.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 1                               | 2                  | 7/0.43                                    | 18.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 1                               | 5                  | 32/0.2                                    | 19.9   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 1.5                             | 2                  | 7/0.53                                    | 12.3   | 40                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 2.5                             | 2                  | 7/0.67                                    | 7.6  | 60                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |

## Cable Design Parameters

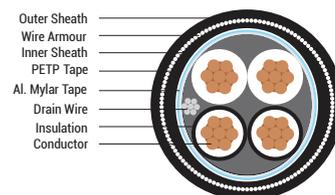
|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070450221050 | 2 x 2 x 0.5   | 0.44                           | 1.1                           | 8.1                         | 70.7                         |
|                   | 070450321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.7                         | 95.3                         |
|                   | 070450421050 | 4 x 2 x 0.5   | 0.44                           | 1.2                           | 11.0                        | 119.6                        |
|                   | 070450521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 12.2                        | 143.9                        |
|                   | 070450821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 15.3                        | 214.1                        |
|                   | 070451021050 | 10 x 2 x 0.5  | 0.44                           | 1.4                           | 17.1                        | 261.2                        |
|                   | 070451221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 18.8                        | 307.5                        |
|                   | 070451621050 | 16 x 2 x 0.5  | 0.44                           | 1.6                           | 21.9                        | 400.8                        |
|                   | 070452021050 | 20 x 2 x 0.5  | 0.44                           | 1.7                           | 24.7                        | 494.1                        |
|                   | 070452421050 | 24 x 2 x 0.5  | 0.44                           | 1.8                           | 27.3                        | 587.8                        |
|                   | 070450221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.7                         | 85.1                         |
|                   | 070450321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 10.4                        | 116.6                        |
|                   | 070450421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 11.8                        | 147.3                        |
|                   | 070450521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 13.1                        | 177.9                        |
|                   | 070450821075 | 8 x 2 x 0.75  | 0.44                           | 1.4                           | 16.4                        | 267.7                        |
|                   | 070451021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 18.4                        | 328.5                        |
|                   | 070451221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.2                        | 387.3                        |
|                   | 070451621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.6                           | 23.5                        | 505.6                        |
|                   | 070452021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.7                           | 26.5                        | 626.8                        |
|                   | 070452421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.8                           | 29.3                        | 745.7                        |
|                   | 070450220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 9.1                         | 98.0                         |
|                   | 070450320001 | 3 x 2 x 1   | 0.44                           | 1.2                           | 10.9                        | 135.9                        |
|                   | 070450420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 12.4                        | 172.6                        |
|                   | 070450520001 | 5 x 2 x 1   | 0.44                           | 1.3                           | 13.7                        | 209.0                        |
|                   | 070450820001 | 8 x 2 x 1   | 0.44                           | 1.4                           | 17.2                        | 317.0                        |
|                   | 070451020001 | 10 x 2 x 1  | 0.44                           | 1.5                           | 19.3                        | 389.7                        |
|                   | 070451220001 | 12 x 2 x 1  | 0.44                           | 1.5                           | 21.2                        | 461.2                        |
|                   | 070451620001 | 16 x 2 x 1  | 0.44                           | 1.7                           | 24.7                        | 604.1                        |
|                   | 070452020001 | 20 x 2 x 1  | 0.44                           | 1.8                           | 27.8                        | 749.2                        |
|                   | 070452420001 | 24 x 2 x 1  | 0.44                           | 1.9                           | 30.7                        | 891.5                        |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070420221050 | 2 x 2 x 0.5   | 0.44                           | 1.1                           | 8.1                         | 70.3                         |
|                   | 070420321050 | 3 x 2 x 0.5   | 0.44                           | 1.1                           | 9.7                         | 94.9                         |
|                   | 070420421050 | 4 x 2 x 0.5   | 0.44                           | 1.2                           | 11.0                        | 119.1                        |
|                   | 070420521050 | 5 x 2 x 0.5   | 0.44                           | 1.2                           | 12.2                        | 143.1                        |
|                   | 070420821050 | 8 x 2 x 0.5   | 0.44                           | 1.3                           | 15.3                        | 213.0                        |
|                   | 070421021050 | 10 x 2 x 0.5  | 0.44                           | 1.4                           | 17.1                        | 259.9                        |
|                   | 070421221050 | 12 x 2 x 0.5  | 0.44                           | 1.4                           | 18.8                        | 305.8                        |
|                   | 070421621050 | 16 x 2 x 0.5  | 0.44                           | 1.6                           | 21.9                        | 398.6                        |
|                   | 070422021050 | 20 x 2 x 0.5  | 0.44                           | 1.7                           | 24.7                        | 491.4                        |
|                   | 070422421050 | 24 x 2 x 0.5  | 0.44                           | 1.8                           | 27.3                        | 584.6                        |
|                   | 070420221075 | 2 x 2 x 0.75  | 0.44                           | 1.1                           | 8.7                         | 85.0                         |
|                   | 070420321075 | 3 x 2 x 0.75  | 0.44                           | 1.1                           | 10.4                        | 116.6                        |
|                   | 070420421075 | 4 x 2 x 0.75  | 0.44                           | 1.2                           | 11.8                        | 147.3                        |
|                   | 070420521075 | 5 x 2 x 0.75  | 0.44                           | 1.2                           | 13.1                        | 177.8                        |
|                   | 070420821075 | 8 x 2 x 0.75  | 0.44                           | 1.4                           | 16.4                        | 267.5                        |
|                   | 070421021075 | 10 x 2 x 0.75                                       | 0.44                           | 1.4                           | 18.4                        | 328.3                        |
|                   | 070421221075 | 12 x 2 x 0.75                                       | 0.44                           | 1.5                           | 20.2                        | 387.1                        |
|                   | 070421621075 | 16 x 2 x 0.75                                       | 0.44                           | 1.6                           | 23.5                        | 506.5                        |
|                   | 070422021075 | 20 x 2 x 0.75                                       | 0.44                           | 1.7                           | 26.5                        | 626.5                        |
|                   | 070422421075 | 24 x 2 x 0.75                                       | 0.44                           | 1.8                           | 29.3                        | 745.3                        |
|                   | 070420220001 | 2 x 2 x 1   | 0.44                           | 1.1                           | 9.3                         | 100.2                        |
|                   | 070420320001 | 3 x 2 x 1   | 0.44                           | 1.2                           | 11.0                        | 138.5                        |
|                   | 070420420001 | 4 x 2 x 1   | 0.44                           | 1.2                           | 12.6                        | 176.5                        |
|                   | 070420520001 | 5 x 2 x 1   | 0.44                           | 1.3                           | 14.0                        | 213.7                        |
|                   | 070420820001 | 8 x 2 x 1   | 0.44                           | 1.4                           | 17.5                        | 324.1                        |
|                   | 070421020001 | 10 x 2 x 1  | 0.44                           | 1.5                           | 19.6                        | 398.4                        |
|                   | 070421220001 | 12 x 2 x 1  | 0.44                           | 1.5                           | 21.5                        | 471.4                        |
|                   | 070421620001 | 16 x 2 x 1  | 0.44                           | 1.7                           | 25.0                        | 617.4                        |
|                   | 070422020001 | 20 x 2 x 1  | 0.44                           | 1.8                           | 28.2                        | 765.6                        |
|                   | 070422420001 | 24 x 2 x 1  | 0.44                           | 1.9                           | 31.2                        | 912.4                        |
|                   | 070420221105 | 2 x 2 x 1.5   | 0.44                           | 1.1                           | 10.2                        | 128.9                        |
|                   | 070420321105 | 3 x 2 x 1.5   | 0.44                           | 1.2                           | 12.2                        | 181.4                        |
|                   | 070420421105 | 4 x 2 x 1.5   | 0.44                           | 1.3                           | 13.9                        | 232.4                        |
| 070420521105      | 5 x 2 x 1.5  | 0.44  | 1.3                            | 15.4                          | 283.3                       |                              |
| 070420821105      | 8 x 2 x 1.5  | 0.44  | 1.5                            | 19.4                          | 433.2                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070421021105 | 10 x 2 x 1.5  | 0.44                           | 1.6                           | 21.7                        | 534.7                        |
|                   | 070421221105 | 12 x 2 x 1.5  | 0.44                           | 1.6                           | 23.8                        | 634.5                        |
|                   | 070421621105 | 16 x 2 x 1.5  | 0.44                           | 1.8                           | 27.7                        | 833.2                        |
|                   | 070422021105 | 20 x 2 x 1.5  | 0.44                           | 1.9                           | 31.2                        | 1035.1                       |
|                   | 070422421105 | 24 x 2 x 1.5  | 0.44                           | 2.0                           | 34.4                        | 1235.1                       |
|                   | 070420221205 | 2 x 2 x 2.5   | 0.53                           | 1.2                           | 11.9                        | 184.0                        |
|                   | 070420321205 | 3 x 2 x 2.5   | 0.53                           | 1.3                           | 14.3                        | 261.2                        |
|                   | 070420421205 | 4 x 2 x 2.5   | 0.53                           | 1.4                           | 16.3                        | 338.1                        |
|                   | 070420521205 | 5 x 2 x 2.5   | 0.53                           | 1.4                           | 18.2                        | 414.3                        |
|                   | 070420821205 | 8 x 2 x 2.5   | 0.53                           | 1.6                           | 22.8                        | 639.9                        |
|                   | 070421021205 | 10 x 2 x 2.5  | 0.53                           | 1.7                           | 25.5                        | 791.8                        |
|                   | 070421221205 | 12 x 2 x 2.5  | 0.53                           | 1.8                           | 28.0                        | 941.4                        |
|                   | 070421621205 | 16 x 2 x 2.5  | 0.53                           | 2.0                           | 32.6                        | 1241.1                       |
|                   | 070422021205 | 20 x 2 x 2.5  | 0.53                           | 2.1                           | 36.6                        | 1544.8                       |
|                   | 070422421205 | 24 x 2 x 2.5  | 0.53                           | 2.2                           | 40.4                        | 1845.5                       |

# RE-Y(St)YSWAY - SINGLE & MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Polyvinyl chloride PVC

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Inner Sheath** : Polyvinyl chloride PVC

**Armour** : Galvanised round steel wires

**Cable Sheath** : Polyvinyl chloride PVC

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +70°C

**Bending Radius** : 10 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

Marking : RR KABEL RE-Y(St)YSWAY nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage V <sub>rms</sub> (Core-Core) | Test Voltage V <sub>rms</sub> (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|---|---|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 20                                   | 250                             | 1                       | 2000                                      | 2000  |

\*For multi-pair maximum resistance shall be increased by 2%.

## Cable Design Parameters

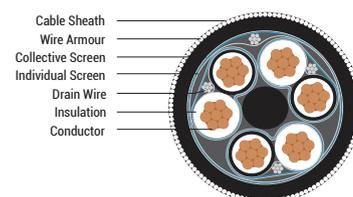
|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070550121050 | 1 x 2 x 0.5                                       | 0.44                           | 1                                   | 6.4                                 | 0.9                              | 1.4                                 | 11.1                        | 212.7                        |
|                   | 070550221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.4                        | 266.4                        |
|                   | 070550321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 320.1                        |
|                   | 070550421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.7                        | 368.6                        |
|                   | 070550521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.8                                | 0.9                              | 1.6                                 | 15.7                        | 413.8                        |
|                   | 070550821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 13.1                                | 0.9                              | 1.6                                 | 18.1                        | 537.2                        |
|                   | 070551021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 14.4                                | 0.9                              | 1.7                                 | 19.5                        | 613.5                        |
|                   | 070551221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 15.5                                | 1.25                             | 1.7                                 | 21.4                        | 786.1                        |
|                   | 070551621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.6                                | 1.25                             | 1.8                                 | 23.6                        | 936.9                        |
|                   | 070552021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 19.4                                | 1.25                             | 1.8                                 | 25.5                        | 1080.4                       |
|                   | 070552421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 21.0                                | 1.25                             | 1.9                                 | 27.2                        | 1217.3                       |
|                   | 070550121075 | 1 x 2 x 0.75                                      | 0.44                           | 1                                   | 6.8                                 | 0.9                              | 1.4                                 | 11.5                        | 230.0                        |
|                   | 070550221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 12.9                        | 293.3                        |
|                   | 070550321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 356.6                        |
|                   | 070550421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 414.1                        |
|                   | 070550521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.6                        | 468.0                        |
|                   | 070550821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 14.1                                | 0.9                              | 1.6                                 | 19.2                        | 616.4                        |
|                   | 070551021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 15.5                                | 1.25                             | 1.7                                 | 21.4                        | 809.1                        |
|                   | 070551221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 16.8                                | 1.25                             | 1.7                                 | 22.8                        | 905.3                        |
|                   | 070551621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.0                                | 1.25                             | 1.8                                 | 25.1                        | 1088.2                       |
|                   | 070552021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 21.0                                | 1.25                             | 1.9                                 | 27.2                        | 1263.5                       |
|                   | 070552421075 | 24 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.8                                | 1.25                             | 1.9                                 | 29.1                        | 1431.3                       |
|                   | 070550120001 | 1 x 2 x 1   | 0.44                           | 1                                   | 7.1                                 | 0.9                              | 1.4                                 | 11.8                        | 244.2                        |
|                   | 070550220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 8.5                                 | 0.9                              | 1.5                                 | 13.3                        | 315.6                        |
|                   | 070550320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.0                                | 0.9                              | 1.5                                 | 14.8                        | 387.2                        |
|                   | 070550420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.1                        | 452.6                        |
|                   | 070550520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 12.2                                | 0.9                              | 1.6                                 | 17.2                        | 514.2                        |
|                   | 070550820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 14.9                                | 0.9                              | 1.7                                 | 20.0                        | 684.7                        |
|                   | 070551020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 897.2                        |
|                   | 070551220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 17.7                                | 1.25                             | 1.8                                 | 23.8                        | 1008.1                       |
|                   | 070551620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.3                        | 1219.5                       |
|                   | 070552020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 22.3                                | 1.25                             | 1.9                                 | 28.5                        | 1423.3                       |
| 070552420001      | 24 x 2 x 1   | 0.44  | 1                              | 24.2                                | 1.25                                | 1.9                              | 30.6                                | 1618.8                      |                              |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070520121050 | 1 x 2 x 0.5                                       | 0.44                           | 1                                   | 6.4                                 | 0.9                              | 1.4                                 | 11.1                        | 212.5                        |
|                   | 070520221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.4                        | 266.1                        |
|                   | 070520321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 319.7                        |
|                   | 070520421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.7                        | 368.1                        |
|                   | 070520521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.8                                | 0.9                              | 1.6                                 | 15.7                        | 413.1                        |
|                   | 070520821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 13.1                                | 0.9                              | 1.6                                 | 18.1                        | 536.2                        |
|                   | 070521021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 14.4                                | 0.9                              | 1.7                                 | 19.5                        | 612.2                        |
|                   | 070521221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 15.5                                | 1.25                             | 1.7                                 | 21.4                        | 784.6                        |
|                   | 070521621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.6                                | 1.25                             | 1.8                                 | 23.6                        | 934.9                        |
|                   | 070522021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 19.4                                | 1.25                             | 1.8                                 | 25.5                        | 1077.9                       |
|                   | 070522421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 21.0                                | 1.25                             | 1.9                                 | 27.2                        | 1214.3                       |
|                   | 070520121075 | 1 x 2 x 0.75                                      | 0.44                           | 1                                   | 6.8                                 | 0.9                              | 1.4                                 | 11.5                        | 230.4                        |
|                   | 070520221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 12.9                        | 293.7                        |
|                   | 070520321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 357.1                        |
|                   | 070520421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 414.8                        |
|                   | 070520521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.6                        | 468.8                        |
|                   | 070520821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 14.1                                | 0.9                              | 1.6                                 | 19.2                        | 617.4                        |
|                   | 070521021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 15.6                                | 1.25                             | 1.7                                 | 21.5                        | 810.5                        |
|                   | 070521221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 16.8                                | 1.25                             | 1.7                                 | 22.8                        | 906.9                        |
|                   | 070521621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.1                                | 1.25                             | 1.8                                 | 25.2                        | 1090.0                       |
|                   | 070522021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 21.1                                | 1.25                             | 1.9                                 | 27.3                        | 1265.6                       |
|                   | 070522421075 | 24 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.9                                | 1.25                             | 1.9                                 | 29.2                        | 1433.6                       |
|                   | 070520120001 | 1 x 2 x 1   | 0.44                           | 1                                   | 7.2                                 | 0.9                              | 1.4                                 | 11.7                        | 241.9                        |
|                   | 070520220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 8.7                                 | 0.9                              | 1.5                                 | 13.5                        | 320.4                        |
|                   | 070520320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.1                                | 0.9                              | 1.5                                 | 15.0                        | 393.4                        |
|                   | 070520420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 11.4                                | 0.9                              | 1.6                                 | 16.3                        | 460.2                        |
|                   | 070520520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 12.4                                | 0.9                              | 1.6                                 | 17.4                        | 523.0                        |
|                   | 070520820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 15.1                                | 1.25                             | 1.7                                 | 21.0                        | 794.7                        |
|                   | 070521020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 16.7                                | 1.25                             | 1.7                                 | 22.6                        | 913.4                        |
|                   | 070521220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 18.1                                | 1.25                             | 1.8                                 | 24.1                        | 1026.4                       |
|                   | 070521620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 20.5                                | 1.25                             | 1.8                                 | 26.7                        | 1242.1                       |
|                   | 070522020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 22.7                                | 1.25                             | 1.9                                 | 29.0                        | 1449.9                       |
| 070522420001      | 24 x 2 x 1   | 0.44  | 1                              | 24.6                                | 1.25                                | 2.0                              | 31.0                                | 1649.4                      |                              |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070520121105 | 1 x 2 x 1.5                                       | 0.44                           | 1                                   | 7.9                                 | 0.9                              | 1.5                                 | 12.6                        | 278.7                        |
|                   | 070520221105 | 2 x 2 x 1.5                                       | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.4                        | 369.8                        |
|                   | 070520321105 | 3 x 2 x 1.5                                       | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.1                        | 461.2                        |
|                   | 070520421105 | 4 x 2 x 1.5                                       | 0.44                           | 1                                   | 12.6                                | 0.9                              | 1.6                                 | 17.6                        | 545.4                        |
|                   | 070520521105 | 5 x 2 x 1.5                                       | 0.44                           | 1                                   | 13.8                                | 0.9                              | 1.6                                 | 18.9                        | 625.2                        |
|                   | 070520821105 | 8 x 2 x 1.5                                       | 0.44                           | 1                                   | 16.9                                | 1.25                             | 1.7                                 | 22.8                        | 956.4                        |
|                   | 070521021105 | 10 x 2 x 1.5                                      | 0.44                           | 1                                   | 18.6                                | 1.25                             | 1.8                                 | 24.7                        | 1108.5                       |
|                   | 070521221105 | 12 x 2 x 1.5                                      | 0.44                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.3                        | 1253.9                       |
|                   | 070521621105 | 16 x 2 x 1.5                                      | 0.44                           | 1                                   | 22.9                                | 1.25                             | 1.9                                 | 29.2                        | 1532.9                       |
|                   | 070522021105 | 20 x 2 x 1.5                                      | 0.44                           | 1                                   | 25.4                                | 1.6                              | 2.0                                 | 32.6                        | 1964.5                       |
|                   | 070522421105 | 24 x 2 x 1.5                                      | 0.44                           | 1.2                                 | 28.0                                | 1.6                              | 2.1                                 | 35.3                        | 2282.1                       |
|                   | 070520121205 | 1 x 2 x 2.5                                       | 0.53                           | 1                                   | 9.1                                 | 0.9                              | 1.5                                 | 13.9                        | 338.1                        |
|                   | 070520221205 | 2 x 2 x 2.5                                       | 0.53                           | 1                                   | 11.1                                | 0.9                              | 1.6                                 | 16.1                        | 464.0                        |
|                   | 070520321205 | 3 x 2 x 2.5                                       | 0.53                           | 1                                   | 13.1                                | 0.9                              | 1.6                                 | 18.2                        | 590.4                        |
|                   | 070520421205 | 4 x 2 x 2.5                                       | 0.53                           | 1                                   | 14.8                                | 0.9                              | 1.7                                 | 20.0                        | 708.2                        |
|                   | 070520521205 | 5 x 2 x 2.5                                       | 0.53                           | 1                                   | 16.3                                | 1.25                             | 1.7                                 | 22.3                        | 925.5                        |
|                   | 070520821205 | 8 x 2 x 2.5                                       | 0.53                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.2                        | 1265.4                       |
|                   | 070521021205 | 10 x 2 x 2.5                                      | 0.53                           | 1                                   | 22.2                                | 1.25                             | 1.9                                 | 28.4                        | 1481.4                       |
|                   | 070521221205 | 12 x 2 x 2.5                                      | 0.53                           | 1                                   | 24.1                                | 1.25                             | 1.9                                 | 30.5                        | 1688.8                       |
|                   | 070521621205 | 16 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 27.9                                | 1.6                              | 2.1                                 | 35.2                        | 2306.2                       |
| 070522021205      | 20 x 2 x 2.5 | 0.53  | 1.2                            | 30.8                                | 1.6                                 | 2.2                              | 38.3                                | 2719.3                      |                              |
| 070522421205      | 24 x 2 x 2.5 | 0.53  | 1.2                            | 33.5                                | 1.6                                 | 2.2                              | 41.2                                | 3117.3                      |                              |

# RE-Y(St)YSWAY PiMF - MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Polyvinyl chloride PVC

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Individual Screen** : Aluminium / PETP tape over tinned copper drain wire, plastic tape under and above screen

**Assembly** : Concentric layers

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Inner Sheath** : Polyvinyl chloride PVC

**Armour** : Galvanised round steel wires

**Cable Sheath** : Polyvinyl chloride PVC

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +70°C

**Bending Radius** : 10 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

Marking : RR KABEL RE-Y(St)YSWAY PiMF nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage $V_{rms}$ (Core-Core) | Test Voltage $V_{rms}$ (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|------------------------------------|--------------------------------------|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 20                                   | 250                             | 1                       | 2000                               | 2000                                 |

\*For multi-pair maximum resistance shall be increased by 2%.

## Cable Design Parameters

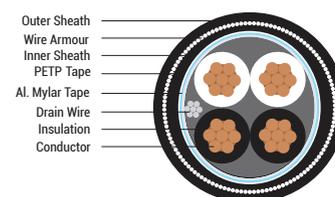
|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070650221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.0                                 | 0.9                              | 1.5                                 | 12.8                        | 277.9                        |
|                   | 070650321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 337.6                        |
|                   | 070650421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.5                                 | 15.6                        | 392.2                        |
|                   | 070650521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.8                        | 443.6                        |
|                   | 070650821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 14.7                                | 0.9                              | 1.7                                 | 19.8                        | 585.9                        |
|                   | 070651021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 780.5                        |
|                   | 070651221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.9                                | 1.25                             | 1.8                                 | 24                          | 875.9                        |
|                   | 070651621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 20.8                                | 1.25                             | 1.9                                 | 27                          | 1058.7                       |
|                   | 070652021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 23.4                                | 1.25                             | 1.9                                 | 29.7                        | 1235.1                       |
|                   | 070652421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 25.8                                | 1.6                              | 2.0                                 | 33.1                        | 1569.3                       |
|                   | 070650221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.6                                 | 0.9                              | 1.5                                 | 13.3                        | 304.8                        |
|                   | 070650321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.1                                | 0.9                              | 1.5                                 | 15                          | 374.2                        |
|                   | 070650421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.4                                | 0.9                              | 1.6                                 | 16.4                        | 437.9                        |
|                   | 070650521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 12.6                                | 0.9                              | 1.6                                 | 17.6                        | 498.0                        |
|                   | 070650821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 15.7                                | 1.25                             | 1.7                                 | 21.6                        | 766.9                        |
|                   | 070651021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 17.5                                | 1.25                             | 1.8                                 | 23.5                        | 883.8                        |
|                   | 070651221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.2                                | 1.25                             | 1.8                                 | 25.3                        | 995.9                        |
|                   | 070651621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.2                                | 1.25                             | 1.9                                 | 28.5                        | 1211.3                       |
|                   | 070652021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 25.0                                | 1.25                             | 2.0                                 | 31.5                        | 1420.1                       |
|                   | 070652421075 | 24 x 2 x 0.75                                     | 0.44                           | 1.2                                 | 28.0                                | 1.6                              | 2.1                                 | 35.4                        | 1840.1                       |
|                   | 070650220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 327.3                        |
|                   | 070650320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 404.9                        |
|                   | 070650420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 12.0                                | 0.9                              | 1.6                                 | 16.9                        | 476.5                        |
|                   | 070650520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 13.2                                | 0.9                              | 1.6                                 | 18.3                        | 544.4                        |
|                   | 070650820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 16.5                                | 1.25                             | 1.7                                 | 22.4                        | 840.3                        |
|                   | 070651020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 18.4                                | 1.25                             | 1.8                                 | 24.4                        | 972.4                        |
|                   | 070651220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.3                        | 1099.3                       |
|                   | 070651620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 23.3                                | 1.25                             | 1.9                                 | 29.7                        | 1343.6                       |
|                   | 070652020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 26.3                                | 1.6                              | 2.0                                 | 33.5                        | 1747.4                       |
|                   | 070652420001 | 24 x 2 x 1  | 0.44                           | 1.2                                 | 29.4                                | 1.6                              | 2.1                                 | 36.8                        | 2039.0                       |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070620221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.0                                 | 0.9                              | 1.5                                 | 12.8                        | 277.6                        |
|                   | 070620321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 337.2                        |
|                   | 070620421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.5                                 | 15.6                        | 391.7                        |
|                   | 070620521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.8                        | 442.9                        |
|                   | 070620821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 14.7                                | 0.9                              | 1.7                                 | 19.8                        | 584.9                        |
|                   | 070621021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 779.2                        |
|                   | 070621221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.9                                | 1.25                             | 1.8                                 | 24.0                        | 874.4                        |
|                   | 070621621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 20.8                                | 1.25                             | 1.9                                 | 27.0                        | 1056.7                       |
|                   | 070622021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 23.4                                | 1.25                             | 1.9                                 | 29.7                        | 1232.6                       |
|                   | 070622421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 25.8                                | 1.6                              | 2.0                                 | 33.1                        | 1566.3                       |
|                   | 070620221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.6                                 | 0.9                              | 1.5                                 | 13.4                        | 305.3                        |
|                   | 070620321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.1                                | 0.9                              | 1.5                                 | 15.0                        | 374.7                        |
|                   | 070620421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.4                                | 0.9                              | 1.6                                 | 16.4                        | 438.5                        |
|                   | 070620521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 12.6                                | 0.9                              | 1.6                                 | 17.7                        | 498.8                        |
|                   | 070620821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 15.7                                | 1.25                             | 1.7                                 | 21.7                        | 768.1                        |
|                   | 070621021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 17.6                                | 1.25                             | 1.8                                 | 23.6                        | 885.2                        |
|                   | 070621221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.2                                | 1.25                             | 1.8                                 | 25.3                        | 997.5                        |
|                   | 070621621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.3                                | 1.25                             | 1.9                                 | 28.6                        | 1213.2                       |
|                   | 070622021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 25.1                                | 1.6                              | 2.0                                 | 32.3                        | 1581.2                       |
|                   | 070622421075 | 24 x 2 x 0.75                                     | 0.44                           | 1.2                                 | 28.1                                | 1.6                              | 2.1                                 | 35.4                        | 1842.9                       |
|                   | 070620220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 9.1                                 | 0.9                              | 1.5                                 | 13.9                        | 332                          |
|                   | 070620320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.6                                 | 15.6                        | 411.1                        |
|                   | 070620420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 12.2                                | 0.9                              | 1.6                                 | 17.1                        | 484.1                        |
|                   | 070620520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 13.4                                | 0.9                              | 1.6                                 | 18.5                        | 553.2                        |
|                   | 070620820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 16.7                                | 1.25                             | 1.7                                 | 22.7                        | 854.2                        |
|                   | 070621020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 18.7                                | 1.25                             | 1.8                                 | 24.8                        | 988.7                        |
|                   | 070621220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 20.5                                | 1.25                             | 1.8                                 | 26.6                        | 1117.8                       |
|                   | 070621620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 23.7                                | 1.25                             | 1.9                                 | 30.1                        | 1366.6                       |
|                   | 070622020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 26.7                                | 1.6                              | 2.0                                 | 33.9                        | 1777.1                       |
|                   | 070622420001 | 24 x 2 x 1  | 0.44                           | 1.2                                 | 29.8                                | 1.6                              | 2.1                                 | 37.3                        | 2073.4                       |
|                   | 070620221105 | 2 x 2 x 1.5                                       | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.8                        | 381.6                        |
|                   | 070620321105 | 3 x 2 x 1.5                                       | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.7                        | 479                          |
| 070620421105      | 4 x 2 x 1.5  | 0.44  | 1                              | 13.4                                | 0.9                                 | 1.6                              | 18.4                                | 569.6                       |                              |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070620521105 | 5 x 2 x 1.5                                       | 0.44                           | 1                                   | 14.8                                | 0.9                              | 1.7                                 | 19.9                        | 655.8                        |
|                   | 070620821105 | 8 x 2 x 1.5                                       | 0.44                           | 1                                   | 18.5                                | 1.25                             | 1.8                                 | 24.5                        | 1016.7                       |
|                   | 070621021105 | 10 x 2 x 1.5                                      | 0.44                           | 1                                   | 20.6                                | 1.25                             | 1.8                                 | 26.8                        | 1184.9                       |
|                   | 070621221105 | 12 x 2 x 1.5                                      | 0.44                           | 1                                   | 22.5                                | 1.25                             | 1.9                                 | 28.8                        | 1346.7                       |
|                   | 070621621105 | 16 x 2 x 1.5                                      | 0.44                           | 1                                   | 26.1                                | 1.6                              | 2                                   | 33.4                        | 1824.9                       |
|                   | 070622021105 | 20 x 2 x 1.5                                      | 0.44                           | 1.2                                 | 29.8                                | 1.6                              | 2.1                                 | 37.2                        | 2195.6                       |
|                   | 070622421105 | 24 x 2 x 1.5                                      | 0.44                           | 1.2                                 | 32.8                                | 1.6                              | 2.2                                 | 40.4                        | 2513.8                       |
|                   | 070620221205 | 2 x 2 x 2.5                                       | 0.53                           | 1                                   | 11.5                                | 0.9                              | 1.6                                 | 16.5                        | 475.9                        |
|                   | 070620321205 | 3 x 2 x 2.5                                       | 0.53                           | 1                                   | 13.7                                | 0.9                              | 1.6                                 | 18.8                        | 608.6                        |
|                   | 070620421205 | 4 x 2 x 2.5                                       | 0.53                           | 1                                   | 15.6                                | 1.25                             | 1.7                                 | 21.5                        | 833.6                        |
|                   | 070620521205 | 5 x 2 x 2.5                                       | 0.53                           | 1                                   | 17.3                                | 1.25                             | 1.8                                 | 23.3                        | 962.9                        |
|                   | 070620821205 | 8 x 2 x 2.5                                       | 0.53                           | 1                                   | 21.7                                | 1.25                             | 1.9                                 | 27.9                        | 1327.1                       |
|                   | 070621021205 | 10 x 2 x 2.5                                      | 0.53                           | 1                                   | 24.2                                | 1.25                             | 1.9                                 | 30.6                        | 1559.7                       |
|                   | 070621221205 | 12 x 2 x 2.5                                      | 0.53                           | 1                                   | 26.5                                | 1.6                              | 2                                   | 33.7                        | 1951.8                       |
|                   | 070621621205 | 16 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 31.1                                | 1.6                              | 2.2                                 | 38.6                        | 2459.9                       |
|                   | 070622021205 | 20 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 34.8                                | 1.6                              | 2.3                                 | 42.6                        | 2915.1                       |
|                   | 070622421205 | 24 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 38.3                                | 2                                | 2.4                                 | 47.1                        | 3631.3                       |

# RE-2X(St)YSWAY - SINGLE & MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Crosslinked polyethylene XLPE

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Inner Sheath** : Polyvinyl chloride PVC

**Armour** : Galvanised round steel wires

**Cable Sheath** : Polyvinyl chloride PVC (Also available in halogen free construction on request.)

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +90°C

**Bending Radius** : 10 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

Marking : RR KABEL RE-2X(St)YSWAY nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage $V_{rms}$ (Core-Core) | Test Voltage $V_{rms}$ (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|------------------------------------|--------------------------------------|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 5000                                 | 150                             | 1                       | 2000                               | 2000                                 |

## Cable Design Parameters

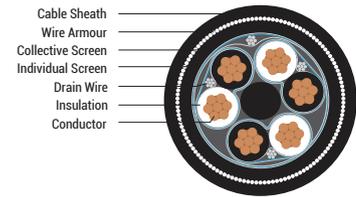
|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070750121050 | 1 x 2 x 0.5                                       | 0.44                           | 1                                   | 6.4                                 | 0.9                              | 1.4                                 | 11.1                        | 209.5                        |
|                   | 070750221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.4                        | 260.1                        |
|                   | 070750321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 310.6                        |
|                   | 070750421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.7                        | 356.0                        |
|                   | 070750521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.8                                | 0.9                              | 1.6                                 | 15.7                        | 398.0                        |
|                   | 070750821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 13.1                                | 0.9                              | 1.6                                 | 18.1                        | 511.8                        |
|                   | 070751021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 14.4                                | 0.9                              | 1.7                                 | 19.5                        | 581.8                        |
|                   | 070751221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 15.5                                | 1.25                             | 1.7                                 | 21.4                        | 748.1                        |
|                   | 070751621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.6                                | 1.25                             | 1.8                                 | 23.6                        | 886.2                        |
|                   | 070752021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 19.4                                | 1.25                             | 1.8                                 | 25.5                        | 1017.0                       |
|                   | 070752421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 21                                  | 1.25                             | 1.9                                 | 27.2                        | 1141.2                       |
|                   | 070750121075 | 1 x 2 x 0.75                                      | 0.44                           | 1                                   | 6.8                                 | 0.9                              | 1.4                                 | 11.5                        | 226.4                        |
|                   | 070750221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 12.9                        | 286.0                        |
|                   | 070750321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 345.6                        |
|                   | 070750421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 399.6                        |
|                   | 070750521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.6                        | 449.8                        |
|                   | 070750821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 14.1                                | 0.9                              | 1.6                                 | 19.2                        | 587.3                        |
|                   | 070751021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 15.5                                | 1.25                             | 1.7                                 | 21.4                        | 772.7                        |
|                   | 070751221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 16.8                                | 1.25                             | 1.7                                 | 22.8                        | 861.6                        |
|                   | 070751621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 19                                  | 1.25                             | 1.8                                 | 25.1                        | 1030.0                       |
|                   | 070752021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 21                                  | 1.25                             | 1.9                                 | 27.2                        | 1190.7                       |
|                   | 070752421075 | 24 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.8                                | 1.25                             | 1.9                                 | 29.1                        | 1344.0                       |
|                   | 070750120001 | 1 x 2 x 1   | 0.44                           | 1                                   | 7.1                                 | 0.9                              | 1.4                                 | 11.8                        | 240.2                        |
|                   | 070750220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 8.5                                 | 0.9                              | 1.5                                 | 13.3                        | 307.7                        |
|                   | 070750320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10                                  | 0.9                              | 1.5                                 | 14.8                        | 375.3                        |
|                   | 070750420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.1                        | 436.8                        |
|                   | 070750520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 12.2                                | 0.9                              | 1.6                                 | 17.2                        | 494.4                        |
|                   | 070750820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 14.9                                | 0.9                              | 1.7                                 | 20.0                        | 653.0                        |
|                   | 070751020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 857.5                        |
|                   | 070751220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 17.7                                | 1.25                             | 1.8                                 | 23.8                        | 960.4                        |
|                   | 070751620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.3                        | 1156.0                       |
|                   | 070752020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 22.3                                | 1.25                             | 1.9                                 | 28.5                        | 1343.9                       |
| 070752420001      | 24 x 2 x 1   | 0.44  | 1                              | 24.2                                | 1.25                                | 1.9                              | 30.6                                | 1523.5                      |                              |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070720121050 | 1 x 2 x 0.5                                       | 0.44                           | 1                                   | 6.4                                 | 0.9                              | 1.4                                 | 11.1                        | 209.3                        |
|                   | 070720221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.4                        | 259.7                        |
|                   | 070720321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 310.2                        |
|                   | 070720421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.7                        | 355.4                        |
|                   | 070720521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.8                                | 0.9                              | 1.6                                 | 15.7                        | 397.3                        |
|                   | 070720821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 13.1                                | 0.9                              | 1.6                                 | 18.1                        | 510.7                        |
|                   | 070721021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 14.4                                | 0.9                              | 1.7                                 | 19.5                        | 580.4                        |
|                   | 070721221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 15.5                                | 1.25                             | 1.7                                 | 21.4                        | 746.5                        |
|                   | 070721621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.6                                | 1.25                             | 1.8                                 | 23.6                        | 884.0                        |
|                   | 070722021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 19.4                                | 1.25                             | 1.8                                 | 25.5                        | 1014.3                       |
|                   | 070722421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 21                                  | 1.25                             | 1.9                                 | 27.2                        | 1138                         |
|                   | 070720121075 | 1 x 2 x 0.75                                      | 0.44                           | 1                                   | 6.8                                 | 0.9                              | 1.4                                 | 11.5                        | 226.7                        |
|                   | 070720221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 12.9                        | 286.4                        |
|                   | 070720321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 346.1                        |
|                   | 070720421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 400.1                        |
|                   | 070720521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.6                        | 450.4                        |
|                   | 070720821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 14.1                                | 0.9                              | 1.6                                 | 19.2                        | 588.0                        |
|                   | 070721021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 15.6                                | 1.25                             | 1.7                                 | 21.5                        | 773.8                        |
|                   | 070721221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 16.8                                | 1.25                             | 1.7                                 | 22.8                        | 862.8                        |
|                   | 070721621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.1                                | 1.25                             | 1.8                                 | 25.2                        | 1031.2                       |
|                   | 070722021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 21.1                                | 1.25                             | 1.9                                 | 27.3                        | 1192.1                       |
|                   | 070722421075 | 24 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.9                                | 1.25                             | 1.9                                 | 29.2                        | 1345.5                       |
|                   | 070720120001 | 1 x 2 x 1   | 0.44                           | 1                                   | 7.2                                 | 0.9                              | 1.4                                 | 11.7                        | 237.9                        |
|                   | 070720220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 8.7                                 | 0.9                              | 1.5                                 | 13.5                        | 312.5                        |
|                   | 070720320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.1                                | 0.9                              | 1.5                                 | 15.0                        | 381.6                        |
|                   | 070720420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 11.4                                | 0.9                              | 1.6                                 | 16.3                        | 444.5                        |
|                   | 070720520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 12.4                                | 0.9                              | 1.6                                 | 17.4                        | 503.3                        |
|                   | 070720820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 15.1                                | 1.25                             | 1.7                                 | 21.0                        | 763.3                        |
|                   | 070721020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 16.7                                | 1.25                             | 1.7                                 | 22.6                        | 874.1                        |
|                   | 070721220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 18.1                                | 1.25                             | 1.8                                 | 24.1                        | 979.3                        |
| 070721620001      | 16 x 2 x 1   | 0.44  | 1                              | 20.5                                | 1.25                                | 1.8                              | 26.7                                | 1179.3                      |                              |
| 070722020001      | 20 x 2 x 1   | 0.44  | 1                              | 22.7                                | 1.25                                | 1.9                              | 29.0                                | 1371.4                      |                              |
| 070722420001      | 24 x 2 x 1   | 0.44  | 1                              | 24.6                                | 1.25                                | 2.0                              | 31.0                                | 1555.1                      |                              |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070720121105 | 1 x 2 x 1.5                                       | 0.44                           | 1                                   | 7.9                                 | 0.9                              | 1.5                                 | 12.6                        | 273.9                        |
|                   | 070720221105 | 2 x 2 x 1.5                                       | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.4                        | 360.3                        |
|                   | 070720321105 | 3 x 2 x 1.5                                       | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.1                        | 446.8                        |
|                   | 070720421105 | 4 x 2 x 1.5                                       | 0.44                           | 1                                   | 12.6                                | 0.9                              | 1.6                                 | 17.6                        | 526.3                        |
|                   | 070720521105 | 5 x 2 x 1.5                                       | 0.44                           | 1                                   | 13.8                                | 0.9                              | 1.6                                 | 18.9                        | 601.2                        |
|                   | 070720821105 | 8 x 2 x 1.5                                       | 0.44                           | 1                                   | 16.9                                | 1.25                             | 1.7                                 | 22.8                        | 918.1                        |
|                   | 070721021105 | 10 x 2 x 1.5                                      | 0.44                           | 1                                   | 18.6                                | 1.25                             | 1.8                                 | 24.7                        | 1060.6                       |
|                   | 070721221105 | 12 x 2 x 1.5                                      | 0.44                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.3                        | 1196.4                       |
|                   | 070721621105 | 16 x 2 x 1.5                                      | 0.44                           | 1                                   | 22.9                                | 1.25                             | 1.9                                 | 29.2                        | 1456.3                       |
|                   | 070722021105 | 20 x 2 x 1.5                                      | 0.44                           | 1                                   | 25.4                                | 1.6                              | 2.0                                 | 32.6                        | 1868.7                       |
|                   | 070722421105 | 24 x 2 x 1.5                                      | 0.44                           | 1.2                                 | 28.0                                | 1.6                              | 2.1                                 | 35.3                        | 2167.1                       |
|                   | 070720121205 | 1 x 2 x 2.5                                       | 0.53                           | 1                                   | 9.1                                 | 0.9                              | 1.5                                 | 13.9                        | 331.1                        |
|                   | 070720221205 | 2 x 2 x 2.5                                       | 0.53                           | 1                                   | 11.1                                | 0.9                              | 1.6                                 | 16.1                        | 450.1                        |
|                   | 070720321205 | 3 x 2 x 2.5                                       | 0.53                           | 1                                   | 13.1                                | 0.9                              | 1.6                                 | 18.2                        | 569.5                        |
|                   | 070720421205 | 4 x 2 x 2.5                                       | 0.53                           | 1                                   | 14.8                                | 0.9                              | 1.7                                 | 20.0                        | 680.4                        |
|                   | 070720521205 | 5 x 2 x 2.5                                       | 0.53                           | 1                                   | 16.3                                | 1.25                             | 1.7                                 | 22.3                        | 890.7                        |
|                   | 070720821205 | 8 x 2 x 2.5                                       | 0.53                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.2                        | 1209.8                       |
|                   | 070721021205 | 10 x 2 x 2.5                                      | 0.53                           | 1                                   | 22.2                                | 1.25                             | 1.9                                 | 28.4                        | 1411.9                       |
|                   | 070721221205 | 12 x 2 x 2.5                                      | 0.53                           | 1                                   | 24.1                                | 1.25                             | 1.9                                 | 30.5                        | 1605.5                       |
|                   | 070721621205 | 16 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 27.9                                | 1.6                              | 2.1                                 | 35.2                        | 2195.1                       |
| 070722021205      | 20 x 2 x 2.5 | 0.53  | 1.2                            | 30.8                                | 1.6                                 | 2.2                              | 38.3                                | 2580.4                      |                              |
| 070722421205      | 24 x 2 x 2.5 | 0.53  | 1.2                            | 33.5                                | 1.6                                 | 2.2                              | 41.2                                | 2950.5                      |                              |

# RE-2X(St)YSWAY PiMF - MULTI-PAIR

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Crosslinked polyethylene XLPE

**Pairs** : Twisted

**Identification Pairs** : Black & white, continuously numbered on white core (1, 2, 3...) for multi-element

**Individual Screen** : Aluminium / PETP tape over tinned copper drain wire, plastic tape under and above screen

**Assembly** : Concentric layers

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Inner Sheath** : Polyvinyl chloride PVC

**Armour** : Galvanised round steel wires

**Cable Sheath** : Polyvinyl chloride PVC (Also available in halogen free construction, on request.)

**Colour** : Black. Blue for intrinsically safe system.

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +90°C

**Bending Radius** : 10 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

**Marking** : RR KABEL RE-2X(St)YSWAY PiMF nxmxa 500V EN50288-7 CE + 0001m

**n** - No. of pairs

**m** - Pairs

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage V <sub>rms</sub> (Core-Core) | Test Voltage V <sub>rms</sub> (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|---|---|
| 0.5                             | 2                  | 7/0.3                                     | 36.7   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.5                             | 5                  | 16/0.2                                    | 39.8   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 2                  | 7/0.37                                    | 25.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 5                  | 24/0.2                                    | 26.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1                               | 2                  | 7/0.43                                    | 18.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1                               | 5                  | 32/0.2                                    | 19.9   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1.5                             | 2                  | 7/0.53                                    | 12.3   | 40                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 2.5                             | 2                  | 7/0.67                                    | 7.6  | 60                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |

\*For multi-pair maximum resistance shall be increased by 2%.

## Cable Design Parameters

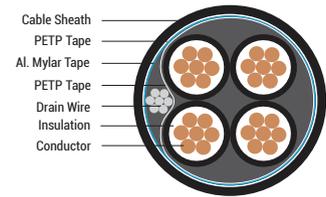
|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070850221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 8.0                                 | 0.9                              | 1.5                                 | 12.8                        | 271.6                        |
|                   | 070850321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 328.1                        |
|                   | 070850421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.5                                 | 15.6                        | 379.6                        |
|                   | 070850521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.8                        | 427.7                        |
|                   | 070850821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 14.7                                | 0.9                              | 1.7                                 | 19.8                        | 560.6                        |
|                   | 070851021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 748.8                        |
|                   | 070851221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.9                                | 1.25                             | 1.8                                 | 24.0                        | 837.9                        |
|                   | 070851621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 20.8                                | 1.25                             | 1.9                                 | 27.0                        | 1008.0                       |
|                   | 070852021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 23.4                                | 1.25                             | 1.9                                 | 29.7                        | 1171.7                       |
|                   | 070852421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 25.8                                | 1.6                              | 2                                   | 33.1                        | 1493.2                       |
|                   | 070850221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.6                                 | 0.9                              | 1.5                                 | 13.3                        | 297.6                        |
|                   | 070850321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.1                                | 0.9                              | 1.5                                 | 15.0                        | 363.2                        |
|                   | 070850421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.4                                | 0.9                              | 1.6                                 | 16.4                        | 423.3                        |
|                   | 070850521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 12.6                                | 0.9                              | 1.6                                 | 17.6                        | 479.8                        |
|                   | 070850821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 15.7                                | 1.25                             | 1.7                                 | 21.6                        | 737.8                        |
|                   | 070851021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 17.5                                | 1.25                             | 1.8                                 | 23.5                        | 847.4                        |
|                   | 070851221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.2                                | 1.25                             | 1.8                                 | 25.3                        | 952.2                        |
|                   | 070851621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.2                                | 1.25                             | 1.9                                 | 28.5                        | 1153.1                       |
|                   | 070852021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 25.0                                | 1.25                             | 2.0                                 | 31.5                        | 1347.3                       |
|                   | 070852421075 | 24 x 2 x 0.75                                     | 0.44                           | 1.2                                 | 28.0                                | 1.6                              | 2.1                                 | 35.4                        | 1752.7                       |
|                   | 070850220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 319.3                        |
|                   | 070850320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 393.0                        |
|                   | 070850420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 12.0                                | 0.9                              | 1.6                                 | 16.9                        | 460.6                        |
|                   | 070850520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 13.2                                | 0.9                              | 1.6                                 | 18.3                        | 524.5                        |
|                   | 070850820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 16.5                                | 1.25                             | 1.7                                 | 22.4                        | 808.5                        |
|                   | 070851020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 18.4                                | 1.25                             | 1.8                                 | 24.4                        | 932.7                        |
|                   | 070851220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 20.1                                | 1.25                             | 1.8                                 | 26.3                        | 1051.6                       |
|                   | 070851620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 23.3                                | 1.25                             | 1.9                                 | 29.7                        | 1280.1                       |
|                   | 070852020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 26.3                                | 1.6                              | 2.0                                 | 33.5                        | 1668.0                       |
|                   | 070852420001 | 24 x 2 x 1  | 0.44                           | 1.2                                 | 29.4                                | 1.6                              | 2.1                                 | 36.8                        | 1943.7                       |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070820221050 | 2 x 2 x 0.5                                       | 0.44                           | 1                                   | 8                                   | 0.9                              | 1.5                                 | 12.8                        | 271.3                        |
|                   | 070820321050 | 3 x 2 x 0.5                                       | 0.44                           | 1                                   | 9.5                                 | 0.9                              | 1.5                                 | 14.3                        | 327.7                        |
|                   | 070820421050 | 4 x 2 x 0.5                                       | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.5                                 | 15.6                        | 379                          |
|                   | 070820521050 | 5 x 2 x 0.5                                       | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.8                        | 427                          |
|                   | 070820821050 | 8 x 2 x 0.5                                       | 0.44                           | 1                                   | 14.7                                | 0.9                              | 1.7                                 | 19.8                        | 559.5                        |
|                   | 070821021050 | 10 x 2 x 0.5                                      | 0.44                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 747.4                        |
|                   | 070821221050 | 12 x 2 x 0.5                                      | 0.44                           | 1                                   | 17.9                                | 1.25                             | 1.8                                 | 24.0                        | 836.3                        |
|                   | 070821621050 | 16 x 2 x 0.5                                      | 0.44                           | 1                                   | 20.8                                | 1.25                             | 1.9                                 | 27.0                        | 1005.9                       |
|                   | 070822021050 | 20 x 2 x 0.5                                      | 0.44                           | 1                                   | 23.4                                | 1.25                             | 1.9                                 | 29.7                        | 1169.1                       |
|                   | 070822421050 | 24 x 2 x 0.5                                      | 0.44                           | 1                                   | 25.8                                | 1.6                              | 2.0                                 | 33.1                        | 1490.1                       |
|                   | 070820221075 | 2 x 2 x 0.75                                      | 0.44                           | 1                                   | 8.6                                 | 0.9                              | 1.5                                 | 13.4                        | 297.9                        |
|                   | 070820321075 | 3 x 2 x 0.75                                      | 0.44                           | 1                                   | 10.1                                | 0.9                              | 1.5                                 | 15.0                        | 363.7                        |
|                   | 070820421075 | 4 x 2 x 0.75                                      | 0.44                           | 1                                   | 11.4                                | 0.9                              | 1.6                                 | 16.4                        | 423.8                        |
|                   | 070820521075 | 5 x 2 x 0.75                                      | 0.44                           | 1                                   | 12.6                                | 0.9                              | 1.6                                 | 17.7                        | 480.4                        |
|                   | 070820821075 | 8 x 2 x 0.75                                      | 0.44                           | 1                                   | 15.7                                | 1.25                             | 1.7                                 | 21.7                        | 738.7                        |
|                   | 070821021075 | 10 x 2 x 0.75                                     | 0.44                           | 1                                   | 17.6                                | 1.25                             | 1.8                                 | 23.6                        | 848.5                        |
|                   | 070821221075 | 12 x 2 x 0.75                                     | 0.44                           | 1                                   | 19.2                                | 1.25                             | 1.8                                 | 25.3                        | 953.4                        |
|                   | 070821621075 | 16 x 2 x 0.75                                     | 0.44                           | 1                                   | 22.3                                | 1.25                             | 1.9                                 | 28.6                        | 1154.4                       |
|                   | 070822021075 | 20 x 2 x 0.75                                     | 0.44                           | 1                                   | 25.1                                | 1.6                              | 2.0                                 | 32.3                        | 1507.7                       |
|                   | 070822421075 | 24 x 2 x 0.75                                     | 0.44                           | 1.2                                 | 28.1                                | 1.6                              | 2.1                                 | 35.4                        | 1754.7                       |
|                   | 070820220001 | 2 x 2 x 1   | 0.44                           | 1                                   | 9.1                                 | 0.9                              | 1.5                                 | 13.9                        | 324.2                        |
|                   | 070820320001 | 3 x 2 x 1   | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.6                                 | 15.6                        | 399.3                        |
|                   | 070820420001 | 4 x 2 x 1   | 0.44                           | 1                                   | 12.2                                | 0.9                              | 1.6                                 | 17.1                        | 468.4                        |
|                   | 070820520001 | 5 x 2 x 1   | 0.44                           | 1                                   | 13.4                                | 0.9                              | 1.6                                 | 18.5                        | 533.5                        |
|                   | 070820820001 | 8 x 2 x 1   | 0.44                           | 1                                   | 16.7                                | 1.25                             | 1.7                                 | 22.7                        | 822.8                        |
|                   | 070821020001 | 10 x 2 x 1  | 0.44                           | 1                                   | 18.7                                | 1.25                             | 1.8                                 | 24.8                        | 949.4                        |
|                   | 070821220001 | 12 x 2 x 1  | 0.44                           | 1                                   | 20.5                                | 1.25                             | 1.8                                 | 26.6                        | 1070.7                       |
|                   | 070821620001 | 16 x 2 x 1  | 0.44                           | 1                                   | 23.7                                | 1.25                             | 1.9                                 | 30.1                        | 1303.7                       |
|                   | 070822020001 | 20 x 2 x 1  | 0.44                           | 1                                   | 26.7                                | 1.6                              | 2.0                                 | 33.9                        | 1698.5                       |
|                   | 070822420001 | 24 x 2 x 1  | 0.44                           | 1.2                                 | 29.8                                | 1.6                              | 2.1                                 | 37.3                        | 1979.1                       |
|                   | 070820221105 | 2 x 2 x 1.5                                       | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.8                        | 372                          |
|                   | 070820321105 | 3 x 2 x 1.5                                       | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.7                        | 464.7                        |
|                   | 070820421105 | 4 x 2 x 1.5                                       | 0.44                           | 1                                   | 13.4                                | 0.9                              | 1.6                                 | 18.4                        | 550.4                        |

|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070820521105 | 5 x 2 x 1.5                                       | 0.44                           | 1                                   | 14.8                                | 0.9                              | 1.7                                 | 19.9                        | 631.8                        |
|                   | 070820821105 | 8 x 2 x 1.5                                       | 0.44                           | 1                                   | 18.5                                | 1.25                             | 1.8                                 | 24.5                        | 978.4                        |
|                   | 070821021105 | 10 x 2 x 1.5                                      | 0.44                           | 1                                   | 20.6                                | 1.25                             | 1.8                                 | 26.8                        | 1136.9                       |
|                   | 070821221105 | 12 x 2 x 1.5                                      | 0.44                           | 1                                   | 22.5                                | 1.25                             | 1.9                                 | 28.8                        | 1289.2                       |
|                   | 070821621105 | 16 x 2 x 1.5                                      | 0.44                           | 1                                   | 26.1                                | 1.6                              | 2.0                                 | 33.4                        | 1748.2                       |
|                   | 070822021105 | 20 x 2 x 1.5                                      | 0.44                           | 1.2                                 | 29.8                                | 1.6                              | 2.1                                 | 37.2                        | 2099.8                       |
|                   | 070822421105 | 24 x 2 x 1.5                                      | 0.44                           | 1.2                                 | 32.8                                | 1.6                              | 2.2                                 | 40.4                        | 2398.8                       |
|                   | 070820221205 | 2 x 2 x 2.5                                       | 0.53                           | 1                                   | 11.5                                | 0.9                              | 1.6                                 | 16.5                        | 462.0                        |
|                   | 070820321205 | 3 x 2 x 2.5                                       | 0.53                           | 1                                   | 13.7                                | 0.9                              | 1.6                                 | 18.8                        | 587.8                        |
|                   | 070820421205 | 4 x 2 x 2.5                                       | 0.53                           | 1                                   | 15.6                                | 1.25                             | 1.7                                 | 21.5                        | 805.8                        |
|                   | 070820521205 | 5 x 2 x 2.5                                       | 0.53                           | 1                                   | 17.3                                | 1.25                             | 1.8                                 | 23.3                        | 928.2                        |
|                   | 070820821205 | 8 x 2 x 2.5                                       | 0.53                           | 1                                   | 21.7                                | 1.25                             | 1.9                                 | 27.9                        | 1271.5                       |
|                   | 070821021205 | 10 x 2 x 2.5                                      | 0.53                           | 1                                   | 24.2                                | 1.25                             | 1.9                                 | 30.6                        | 1490.3                       |
|                   | 070821221205 | 12 x 2 x 2.5                                      | 0.53                           | 1                                   | 26.5                                | 1.6                              | 2.0                                 | 33.7                        | 1868.5                       |
|                   | 070821621205 | 16 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 31.1                                | 1.6                              | 2.2                                 | 38.6                        | 2348.7                       |
|                   | 070822021205 | 20 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 34.8                                | 1.6                              | 2.3                                 | 42.6                        | 2776.2                       |
|                   | 070822421205 | 24 x 2 x 2.5                                      | 0.53                           | 1.2                                 | 38.3                                | 2.0                              | 2.4                                 | 47.1                        | 3464.6                       |

# RE-Y(St)Y - MULTICORE

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Polyvinyl chloride PVC

**Colour Code** : Black, continuously numbered in white

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Cable Sheath** : Polyvinyl chloride PVC

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +70°C

**Bending Radius** : 7.5 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

Marking : RR KABEL RE-Y(St)Y cxa 500V EN50288-7 CE + 0001m

**c** - No. of cores

**a** - Cross sectional area

## Electrical Properties

## Cable Design Parameters

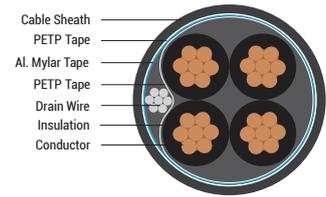
|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 070950221050 | 2 x 0.5   | 0.44                           | 1                             | 6.2                         | 47.1                         |
|                   | 070950421050 | 4 x 0.5   | 0.44                           | 1                             | 7.1                         | 70.7                         |
|                   | 070950521050 | 5 x 0.5   | 0.44                           | 1                             | 7.7                         | 83.6                         |
|                   | 070950821050 | 8 x 0.5   | 0.44                           | 1.1                           | 9.4                         | 121.8                        |
|                   | 070951021050 | 10 x 0.5  | 0.44                           | 1.1                           | 10.7                        | 148.8                        |
|                   | 070951221050 | 12 x 0.5  | 0.44                           | 1.2                           | 11.1                        | 169.7                        |
|                   | 070951621050 | 16 x 0.5  | 0.44                           | 1.2                           | 12.3                        | 215.5                        |
|                   | 070952021050 | 20 x 0.5  | 0.44                           | 1.3                           | 13.7                        | 263.8                        |
|                   | 070952421050 | 24 x 0.5  | 0.44                           | 1.3                           | 15.2                        | 322.4                        |
|                   | 070950221075 | 2 x 0.75  | 0.44                           | 1                             | 6.6                         | 55.4                         |
|                   | 070950421075 | 4 x 0.75  | 0.44                           | 1                             | 7.6                         | 85.7                         |
|                   | 070950521075 | 5 x 0.75  | 0.44                           | 1.1                           | 8.3                         | 102.0                        |
|                   | 070950821075 | 8 x 0.75  | 0.44                           | 1.1                           | 10.2                        | 150.5                        |
|                   | 070951021075 | 10 x 0.75   | 0.44                           | 1.2                           | 11.6                        | 184.8                        |
|                   | 070951221075 | 12 x 0.75   | 0.44                           | 1.2                           | 11.9                        | 212.1                        |
|                   | 070951621075 | 16 x 0.75   | 0.44                           | 1.2                           | 13.3                        | 295.4                        |
|                   | 070952021075 | 20 x 0.75   | 0.44                           | 1.3                           | 14.9                        | 333.2                        |
|                   | 070952421075 | 24 x 0.75   | 0.44                           | 1.4                           | 16.5                        | 408.7                        |
|                   | 070950220001 | 2 x 1   | 0.44                           | 1                             | 6.9                         | 62.7                         |
|                   | 070950420001 | 4 x 1   | 0.44                           | 1                             | 8.0                         | 99.1                         |
|                   | 070950520001 | 5 x 1   | 0.44                           | 1.1                           | 8.8                         | 118.6                        |
|                   | 070950820001 | 8 x 1   | 0.44                           | 1.1                           | 10.7                        | 176.5                        |
|                   | 070951020001 | 10 x 1  | 0.44                           | 1.2                           | 12.2                        | 217.4                        |
|                   | 070951220001 | 12 x 1  | 0.44                           | 1.2                           | 12.6                        | 250.5                        |
| 070951620001      | 16 x 1       | 0.44  | 1.3                            | 14.1                          | 351.5                       |                              |
| 070952020001      | 20 x 1       | 0.44  | 1.3                            | 15.7                          | 396.4                       |                              |
| 070952420001      | 24 x 1       | 0.44  | 1.4                            | 17.5                          | 487.4                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070920221050 | 2 x 0.5   | 0.44                           | 1                             | 6.2                         | 46.9                         |
|                   | 070920421050 | 4 x 0.5   | 0.44                           | 1                             | 7.1                         | 70.4                         |
|                   | 070920521050 | 5 x 0.5   | 0.44                           | 1                             | 7.7                         | 83.3                         |
|                   | 070920821050 | 8 x 0.5   | 0.44                           | 1.1                           | 9.4                         | 121.2                        |
|                   | 070921021050 | 10 x 0.5  | 0.44                           | 1.1                           | 10.7                        | 148.1                        |
|                   | 070921221050 | 12 x 0.5  | 0.44                           | 1.2                           | 11.1                        | 168.9                        |
|                   | 070921621050 | 16 x 0.5  | 0.44                           | 1.2                           | 12.3                        | 214.4                        |
|                   | 070922021050 | 20 x 0.5  | 0.44                           | 1.3                           | 13.7                        | 262.5                        |
|                   | 070922421050 | 24 x 0.5  | 0.44                           | 1.3                           | 15.2                        | 320.9                        |
|                   | 070920221075 | 2 x 0.75  | 0.44                           | 1                             | 6.6                         | 55.5                         |
|                   | 070920421075 | 4 x 0.75  | 0.44                           | 1                             | 7.7                         | 85.8                         |
|                   | 070920521075 | 5 x 0.75  | 0.44                           | 1.1                           | 8.4                         | 102.2                        |
|                   | 070920821075 | 8 x 0.75  | 0.44                           | 1.1                           | 10.2                        | 150.8                        |
|                   | 070921021075 | 10 x 0.75   | 0.44                           | 1.2                           | 11.6                        | 185.2                        |
|                   | 070921221075 | 12 x 0.75   | 0.44                           | 1.2                           | 12.0                        | 212.5                        |
|                   | 070921621075 | 16 x 0.75   | 0.44                           | 1.2                           | 13.3                        | 296                          |
|                   | 070922021075 | 20 x 0.75   | 0.44                           | 1.3                           | 14.9                        | 333.9                        |
|                   | 070922421075 | 24 x 0.75   | 0.44                           | 1.4                           | 16.6                        | 409.6                        |
|                   | 070920220001 | 2 x 1   | 0.44                           | 1                             | 7.0                         | 64.1                         |
|                   | 070920420001 | 4 x 1   | 0.44                           | 1.1                           | 8.2                         | 101.4                        |
|                   | 070920520001 | 5 x 1   | 0.44                           | 1.1                           | 8.9                         | 121.4                        |
|                   | 070920820001 | 8 x 1   | 0.44                           | 1.2                           | 10.9                        | 180.9                        |
|                   | 070921020001 | 10 x 1  | 0.44                           | 1.2                           | 12.4                        | 222.8                        |
|                   | 070921220001 | 12 x 1  | 0.44                           | 1.2                           | 12.8                        | 256.8                        |
|                   | 070921620001 | 16 x 1  | 0.44                           | 1.3                           | 14.3                        | 360.5                        |
|                   | 070922020001 | 20 x 1  | 0.44                           | 1.3                           | 16.0                        | 406.6                        |
|                   | 070922420001 | 24 x 1  | 0.44                           | 1.4                           | 17.8                        | 500                          |
|                   | 070920221105 | 2 x 1.5   | 0.44                           | 1                             | 7.7                         | 80.5                         |
|                   | 070920421105 | 4 x 1.5   | 0.44                           | 1.1                           | 9.0                         | 131.3                        |
|                   | 070920521105 | 5 x 1.5   | 0.44                           | 1.1                           | 9.9                         | 158.3                        |
|                   | 070920821105 | 8 x 1.5   | 0.44                           | 1.2                           | 12.2                        | 238.9                        |
|                   | 070921021105 | 10 x 1.5  | 0.44                           | 1.3                           | 13.8                        | 295.5                        |
|                   | 070921221105 | 12 x 1.5  | 0.44                           | 1.3                           | 14.3                        | 342.5                        |
| 070921621105      | 16 x 1.5     | 0.44  | 1.3                            | 16.0                          | 442.6                       |                              |
| 070922021105      | 20 x 1.5     | 0.44  | 1.4                            | 17.9                          | 547.6                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 070922421105 | 24 x 1.5  | 0.44                           | 1.5                           | 20.0                        | 675.5                        |
|                   | 070920221205 | 2 x 2.5   | 0.53                           | 1.1                           | 9.1                         | 112.2                        |
|                   | 070920421205 | 4 x 2.5   | 0.53                           | 1.1                           | 10.6                        | 189.0                        |
|                   | 070920521205 | 5 x 2.5   | 0.53                           | 1.2                           | 11.7                        | 229.6                        |
|                   | 070920821205 | 8 x 2.5   | 0.53                           | 1.3                           | 14.5                        | 350.9                        |
|                   | 070921021205 | 10 x 2.5  | 0.53                           | 1.4                           | 16.5                        | 436.0                        |
|                   | 070921221205 | 12 x 2.5  | 0.53                           | 1.4                           | 17.1                        | 508.0                        |
|                   | 070921621205 | 16 x 2.5  | 0.53                           | 1.5                           | 19.1                        | 660.3                        |
|                   | 070922021205 | 20 x 2.5  | 0.53                           | 1.5                           | 21.5                        | 819.7                        |
|                   | 070922421205 | 24 x 2.5  | 0.53                           | 1.6                           | 24.0                        | 981.0                        |

# RE-2X(St)Y - MULTICORE

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Cross-linked polyethylene XLPE

**Colour Code** : Black, continuously numbered in white

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Cable Sheath** : Polyvinyl Chloride PVC (Also available in halogen free construction on request.)

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +90°C

**Bending Radius** : 7.5 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request.

**Marking** : RR KABEL RE-2X(St)Y cxa 500V EN50288-7 CE + 0001m

**c** - No. of cores

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage V <sub>rms</sub> (Core-Core) | Test Voltage V <sub>rms</sub> (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|---|---|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 5000                                 | 250                             | 1                       | 2000                                      | 2000  |

## Cable Design Parameters

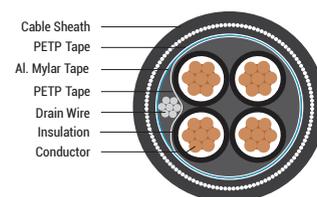
|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 071050221050 | 2 x 0.5   | 0.44                           | 1.0                           | 6.2                         | 43.9                         |
|                   | 071050421050 | 4 x 0.5   | 0.44                           | 1.0                           | 7.1                         | 64.4                         |
|                   | 071050521050 | 5 x 0.5   | 0.44                           | 1.0                           | 7.7                         | 75.7                         |
|                   | 071050821050 | 8 x 0.5   | 0.44                           | 1.1                           | 9.4                         | 109.1                        |
|                   | 071051021050 | 10 x 0.5  | 0.44                           | 1.1                           | 10.7                        | 132.9                        |
|                   | 071051221050 | 12 x 0.5  | 0.44                           | 1.2                           | 11.1                        | 150.7                        |
|                   | 071051621050 | 16 x 0.5  | 0.44                           | 1.2                           | 12.3                        | 190.1                        |
|                   | 071052021050 | 20 x 0.5  | 0.44                           | 1.3                           | 13.7                        | 232.1                        |
|                   | 071052421050 | 24 x 0.5  | 0.44                           | 1.3                           | 15.2                        | 282.8                        |
|                   | 071050221075 | 2 x 0.75  | 0.44                           | 1.0                           | 6.6                         | 51.7                         |
|                   | 071050421075 | 4 x 0.75  | 0.44                           | 1.0                           | 7.6                         | 78.4                         |
|                   | 071050521075 | 5 x 0.75  | 0.44                           | 1.1                           | 8.3                         | 92.9                         |
|                   | 071050821075 | 8 x 0.75  | 0.44                           | 1.1                           | 10.2                        | 136.0                        |
|                   | 071051021075 | 10 x 0.75   | 0.44                           | 1.2                           | 11.6                        | 166.6                        |
|                   | 071051221075 | 12 x 0.75   | 0.44                           | 1.2                           | 11.9                        | 190.2                        |
|                   | 071051621075 | 16 x 0.75   | 0.44                           | 1.2                           | 13.3                        | 262.6                        |
|                   | 071052021075 | 20 x 0.75   | 0.44                           | 1.3                           | 14.9                        | 296.8                        |
|                   | 071052421075 | 24 x 0.75   | 0.44                           | 1.4                           | 16.5                        | 363.2                        |
|                   | 071050220001 | 2 x 1   | 0.44                           | 1.0                           | 6.9                         | 58.8                         |
|                   | 071050420001 | 4 x 1   | 0.44                           | 1.0                           | 8.0                         | 91.2                         |
|                   | 071050520001 | 5 x 1   | 0.44                           | 1.1                           | 8.8                         | 108.7                        |
|                   | 071050820001 | 8 x 1   | 0.44                           | 1.1                           | 10.7                        | 160.7                        |
|                   | 071051020001 | 10 x 1  | 0.44                           | 1.2                           | 12.2                        | 197.5                        |
|                   | 071051220001 | 12 x 1  | 0.44                           | 1.2                           | 12.6                        | 226.7                        |
| 071051620001      | 16 x 1       | 0.44  | 1.3                            | 14.1                          | 315.8                       |                              |
| 071052020001      | 20 x 1       | 0.44  | 1.3                            | 15.7                          | 356.7                       |                              |
| 071052420001      | 24 x 1       | 0.44  | 1.4                            | 17.5                          | 437.7                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 071020221050 | 2 x 0.5   | 0.44                           | 1                             | 6.2                         | 43.7                         |
|                   | 071020421050 | 4 x 0.5   | 0.44                           | 1                             | 7.1                         | 64.1                         |
|                   | 071020521050 | 5 x 0.5   | 0.44                           | 1                             | 7.7                         | 75.3                         |
|                   | 071020821050 | 8 x 0.5   | 0.44                           | 1.1                           | 9.4                         | 108.5                        |
|                   | 071021021050 | 10 x 0.5  | 0.44                           | 1.1                           | 10.7                        | 132.2                        |
|                   | 071021221050 | 12 x 0.5  | 0.44                           | 1.2                           | 11.1                        | 149.9                        |
|                   | 071021621050 | 16 x 0.5  | 0.44                           | 1.2                           | 12.3                        | 189.0                        |
|                   | 071022021050 | 20 x 0.5  | 0.44                           | 1.3                           | 13.7                        | 230.7                        |
|                   | 071022421050 | 24 x 0.5  | 0.44                           | 1.3                           | 15.2                        | 281.1                        |
|                   | 071020221075 | 2 x 0.75  | 0.44                           | 1                             | 6.6                         | 51.8                         |
|                   | 071020421075 | 4 x 0.75  | 0.44                           | 1                             | 7.7                         | 78.5                         |
|                   | 071020521075 | 5 x 0.75  | 0.44                           | 1.1                           | 8.4                         | 93.0                         |
|                   | 071020821075 | 8 x 0.75  | 0.44                           | 1.1                           | 10.2                        | 136.1                        |
|                   | 071021021075 | 10 x 0.75   | 0.44                           | 1.2                           | 11.6                        | 166.7                        |
|                   | 071021221075 | 12 x 0.75   | 0.44                           | 1.2                           | 12                          | 190.4                        |
|                   | 071021621075 | 16 x 0.75   | 0.44                           | 1.2                           | 13.3                        | 262.8                        |
|                   | 071022021075 | 20 x 0.75   | 0.44                           | 1.3                           | 14.9                        | 297                          |
|                   | 071022421075 | 24 x 0.75   | 0.44                           | 1.4                           | 16.6                        | 363.5                        |
|                   | 071020220001 | 2 x 1   | 0.44                           | 1                             | 7.0                         | 59.9                         |
|                   | 071020420001 | 4 x 1   | 0.44                           | 1.1                           | 8.2                         | 93.0                         |
|                   | 071020520001 | 5 x 1   | 0.44                           | 1.1                           | 8.9                         | 111.0                        |
|                   | 071020820001 | 8 x 1   | 0.44                           | 1.2                           | 10.9                        | 164.2                        |
|                   | 071021020001 | 10 x 1  | 0.44                           | 1.2                           | 12.4                        | 202.0                        |
|                   | 071021220001 | 12 x 1  | 0.44                           | 1.2                           | 12.8                        | 231.8                        |
|                   | 071021620001 | 16 x 1  | 0.44                           | 1.3                           | 14.3                        | 323.0                        |
|                   | 071022020001 | 20 x 1  | 0.44                           | 1.3                           | 16.0                        | 364.9                        |
|                   | 071022420001 | 24 x 1  | 0.44                           | 1.4                           | 17.8                        | 447.9                        |
|                   | 071020221105 | 2 x 1.5   | 0.44                           | 1                             | 7.7                         | 75.4                         |
|                   | 071020421105 | 4 x 1.5   | 0.44                           | 1.1                           | 9.0                         | 121.1                        |
|                   | 071020521105 | 5 x 1.5   | 0.44                           | 1.1                           | 9.9                         | 145.6                        |
|                   | 071020821105 | 8 x 1.5   | 0.44                           | 1.2                           | 12.2                        | 218.6                        |
|                   | 071021021105 | 10 x 1.5  | 0.44                           | 1.3                           | 13.8                        | 270.1                        |
|                   | 071021221105 | 12 x 1.5  | 0.44                           | 1.3                           | 14.3                        | 312.0                        |
| 071021621105      | 16 x 1.5     | 0.44  | 1.3                            | 16.0                          | 401.9                       |                              |
| 071022021105      | 20 x 1.5     | 0.44  | 1.4                            | 17.9                          | 496.8                       |                              |

|                   | Part Number  | No. of Pairs and Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 071022421105 | 24 x 1.5  | 0.44                           | 1.5                           | 20.0                        | 612                          |
|                   | 071020221205 | 2 x 2.5   | 0.53                           | 1.1                           | 9.1                         | 104.9                        |
|                   | 071020421205 | 4 x 2.5   | 0.53                           | 1.1                           | 10.6                        | 174.3                        |
|                   | 071020521205 | 5 x 2.5   | 0.53                           | 1.2                           | 11.7                        | 211.2                        |
|                   | 071020821205 | 8 x 2.5   | 0.53                           | 1.3                           | 14.5                        | 321.5                        |
|                   | 071021021205 | 10 x 2.5  | 0.53                           | 1.4                           | 16.5                        | 399.2                        |
|                   | 071021221205 | 12 x 2.5  | 0.53                           | 1.4                           | 17.1                        | 463.8                        |
|                   | 071021621205 | 16 x 2.5  | 0.53                           | 1.5                           | 19.1                        | 601.4                        |
|                   | 071022021205 | 20 x 2.5  | 0.53                           | 1.5                           | 21.5                        | 746.1                        |
|                   | 071022421205 | 24 x 2.5  | 0.53                           | 1.6                           | 24.0                        | 892.6                        |

# RE-Y(St)YSWAY - MULTICORE

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Polyvinyl chloride PVC

**Colour Code** : Black, continuously numbered in white

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Inner Sheath** : Polyvinyl chloride PVC

**Armour** : Galvanised round steel wires

**Cable Sheath** : Polyvinyl chloride PVC

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +70°C

**Bending Radius** : 10 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request

**Marking** : RR KABEL RE-Y(St)YSWAY cxa 500V EN50288-7 CE + 0001m

**c** - No. of cores

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage $V_{rms}$ (Core-Core) | Test Voltage $V_{rms}$ (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|------------------------------------|--------------------------------------|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 20                                   | 150                             | 1                       | 2000                               | 2000                                 |

## Cable Design Parameters

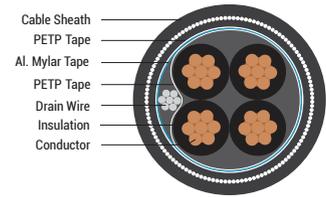
|                   | Part Number  | No. of Pairs & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 071150221050 | 2 x 0.5   | 0.44                           | 1                                   | 6.2                                 | 0.9                              | 1.4                                 | 10.8                        | 206.9                        |
|                   | 071150421050 | 4 x 0.5   | 0.44                           | 1                                   | 7.1                                 | 0.9                              | 1.4                                 | 11.8                        | 250.4                        |
|                   | 071150521050 | 5 x 0.5   | 0.44                           | 1                                   | 7.7                                 | 0.9                              | 1.5                                 | 12.4                        | 276.4                        |
|                   | 071150821050 | 8 x 0.5   | 0.44                           | 1                                   | 9.2                                 | 0.9                              | 1.5                                 | 14.1                        | 349.6                        |
|                   | 071151021050 | 10 x 0.5  | 0.44                           | 1                                   | 10.4                                | 0.9                              | 1.5                                 | 15.3                        | 402.1                        |
|                   | 071151221050 | 12 x 0.5  | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.6                                 | 15.6                        | 430.4                        |
|                   | 071151621050 | 16 x 0.5  | 0.44                           | 1                                   | 11.9                                | 0.9                              | 1.6                                 | 16.8                        | 501                          |
|                   | 071152021050 | 20 x 0.5  | 0.44                           | 1                                   | 13.2                                | 0.9                              | 1.6                                 | 18.2                        | 578.1                        |
|                   | 071152421050 | 24 x 0.5  | 0.44                           | 1                                   | 14.6                                | 0.9                              | 1.7                                 | 19.7                        | 667.1                        |
|                   | 071150221075 | 2 x 0.75  | 0.44                           | 1                                   | 6.6                                 | 0.9                              | 1.4                                 | 11.3                        | 224.2                        |
|                   | 071150421075 | 4 x 0.75  | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.3                        | 276.2                        |
|                   | 071150521075 | 5 x 0.75  | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 13                          | 306.9                        |
|                   | 071150821075 | 8 x 0.75  | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.8                        | 393.6                        |
|                   | 071151021075 | 10 x 0.75   | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.1                        | 455.7                        |
|                   | 071151221075 | 12 x 0.75   | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.5                        | 491                          |
|                   | 071151621075 | 16 x 0.75   | 0.44                           | 1                                   | 12.8                                | 0.9                              | 1.6                                 | 17.8                        | 601.4                        |
|                   | 071152021075 | 20 x 0.75   | 0.44                           | 1                                   | 14.3                                | 0.9                              | 1.6                                 | 19.4                        | 670.5                        |
|                   | 071152421075 | 24 x 0.75   | 0.44                           | 1                                   | 15.8                                | 1.25                             | 1.7                                 | 21.7                        | 880.8                        |
|                   | 071150220001 | 2 x 1   | 0.44                           | 1                                   | 6.9                                 | 0.9                              | 1.4                                 | 11.6                        | 238.3                        |
|                   | 071150420001 | 4 x 1   | 0.44                           | 1                                   | 7.9                                 | 0.9                              | 1.5                                 | 12.7                        | 297.7                        |
|                   | 071150520001 | 5 x 1   | 0.44                           | 1                                   | 8.6                                 | 0.9                              | 1.5                                 | 13.4                        | 332.5                        |
|                   | 071150820001 | 8 x 1   | 0.44                           | 1                                   | 10.5                                | 0.9                              | 1.5                                 | 15.3                        | 431                          |
|                   | 071151020001 | 10 x 1  | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.8                        | 501.4                        |
|                   | 071151220001 | 12 x 1  | 0.44                           | 1                                   | 12.2                                | 0.9                              | 1.6                                 | 17.2                        | 543                          |
|                   | 071151620001 | 16 x 1  | 0.44                           | 1                                   | 13.5                                | 0.9                              | 1.6                                 | 18.6                        | 672.8                        |
|                   | 071152020001 | 20 x 1  | 0.44                           | 1                                   | 15.1                                | 1.25                             | 1.7                                 | 20.9                        | 848.1                        |
|                   | 071152420001 | 24 x 1  | 0.44                           | 1                                   | 16.7                                | 1.25                             | 1.7                                 | 22.7                        | 984.2                        |

|                   | Part Number  | No. of Cores & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 071120221050 | 2 x 0.5   | 0.44                           | 1                                   | 6.2                                 | 0.9                              | 1.4                                 | 10.8                        | 206.7                        |
|                   | 071120421050 | 4 x 0.5   | 0.44                           | 1                                   | 7.1                                 | 0.9                              | 1.4                                 | 11.8                        | 250.1                        |
|                   | 071120521050 | 5 x 0.5   | 0.44                           | 1                                   | 7.7                                 | 0.9                              | 1.5                                 | 12.4                        | 276.1                        |
|                   | 071120821050 | 8 x 0.5   | 0.44                           | 1                                   | 9.2                                 | 0.9                              | 1.5                                 | 14.1                        | 349.1                        |
|                   | 071121021050 | 10 x 0.5  | 0.44                           | 1                                   | 10.4                                | 0.9                              | 1.5                                 | 15.3                        | 401.4                        |
|                   | 071121221050 | 12 x 0.5  | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.6                                 | 15.6                        | 429.6                        |
|                   | 071121621050 | 16 x 0.5  | 0.44                           | 1                                   | 11.9                                | 0.9                              | 1.6                                 | 16.8                        | 500.0                        |
|                   | 071122021050 | 20 x 0.5  | 0.44                           | 1                                   | 13.2                                | 0.9                              | 1.6                                 | 18.2                        | 576.8                        |
|                   | 071122421050 | 24 x 0.5  | 0.44                           | 1                                   | 14.6                                | 0.9                              | 1.7                                 | 19.7                        | 665.5                        |
|                   | 071120221075 | 2 x 0.75  | 0.44                           | 1                                   | 6.6                                 | 0.9                              | 1.4                                 | 11.3                        | 224.7                        |
|                   | 071120421075 | 4 x 0.75  | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.3                        | 276.8                        |
|                   | 071120521075 | 5 x 0.75  | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 13                          | 307.7                        |
|                   | 071120821075 | 8 x 0.75  | 0.44                           | 1                                   | 10.0                                | 0.9                              | 1.5                                 | 14.8                        | 394.7                        |
|                   | 071121021075 | 10 x 0.75   | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.2                        | 456.9                        |
|                   | 071121221075 | 12 x 0.75   | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.6                        | 492.3                        |
|                   | 071121621075 | 16 x 0.75   | 0.44                           | 1                                   | 12.9                                | 0.9                              | 1.6                                 | 17.9                        | 603.0                        |
|                   | 071122021075 | 20 x 0.75   | 0.44                           | 1                                   | 14.3                                | 0.9                              | 1.7                                 | 19.4                        | 672.3                        |
|                   | 071122421075 | 24 x 0.75   | 0.44                           | 1                                   | 15.9                                | 1.25                             | 1.7                                 | 21.8                        | 883.4                        |
|                   | 071120220001 | 2 x 1   | 0.44                           | 1                                   | 7.0                                 | 0.9                              | 1.4                                 | 11.7                        | 241.9                        |
|                   | 071120420001 | 4 x 1   | 0.44                           | 1                                   | 8.1                                 | 0.9                              | 1.5                                 | 12.8                        | 302.7                        |
|                   | 071120520001 | 5 x 1   | 0.44                           | 1                                   | 8.8                                 | 0.9                              | 1.5                                 | 13.5                        | 338.2                        |
|                   | 071120820001 | 8 x 1   | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 439.1                        |
|                   | 071121020001 | 10 x 1  | 0.44                           | 1                                   | 12.0                                | 0.9                              | 1.6                                 | 17.0                        | 511.1                        |
|                   | 071121220001 | 12 x 1  | 0.44                           | 1                                   | 12.4                                | 0.9                              | 1.6                                 | 17.4                        | 553.9                        |
|                   | 071121620001 | 16 x 1  | 0.44                           | 1                                   | 13.8                                | 0.9                              | 1.6                                 | 18.8                        | 686.8                        |
|                   | 071122020001 | 20 x 1  | 0.44                           | 1                                   | 15.3                                | 1.25                             | 1.7                                 | 21.2                        | 865.7                        |
|                   | 071122420001 | 24 x 1  | 0.44                           | 1.2                                 | 17.4                                | 1.25                             | 1.8                                 | 23.4                        | 1034.6                       |
|                   | 071120221105 | 2 x 1.5   | 0.44                           | 1                                   | 7.7                                 | 0.9                              | 1.5                                 | 12.4                        | 273.1                        |
|                   | 071120421105 | 4 x 1.5   | 0.44                           | 1                                   | 8.8                                 | 0.9                              | 1.5                                 | 13.6                        | 350.3                        |
|                   | 071120521105 | 5 x 1.5   | 0.44                           | 1                                   | 9.6                                 | 0.9                              | 1.5                                 | 14.5                        | 394.9                        |
|                   | 071120821105 | 8 x 1.5   | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.7                        | 522.1                        |
|                   | 071121021105 | 10 x 1.5  | 0.44                           | 1                                   | 13.3                                | 0.9                              | 1.6                                 | 18.4                        | 612.5                        |
| 071121221105      | 12 x 1.5     | 0.44  | 1                              | 13.8                                | 0.9                                 | 1.6                              | 18.8                                | 669.3                       |                              |

|                   | Part Number  | No. of Cores & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 071121621105 | 16 x 1.5  | 0.44                           | 1                                   | 15.3                                | 1.25                             | 1.7                                 | 21.2                        | 901.0                        |
|                   | 071122021105 | 20 x 1.5  | 0.44                           | 1.2                                 | 17.5                                | 1.25                             | 1.8                                 | 23.5                        | 1084.5                       |
|                   | 071122421105 | 24 x 1.5  | 0.44                           | 1.2                                 | 19.4                                | 1.25                             | 1.8                                 | 25.5                        | 1266.1                       |
|                   | 071120221205 | 2 x 2.5   | 0.53                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 332.4                        |
|                   | 071120421205 | 4 x 2.5   | 0.53                           | 1                                   | 10.3                                | 0.9                              | 1.5                                 | 15.2                        | 441.2                        |
|                   | 071120521205 | 5 x 2.5   | 0.53                           | 1                                   | 11.3                                | 0.9                              | 1.6                                 | 16.2                        | 503.0                        |
|                   | 071120821205 | 8 x 2.5   | 0.53                           | 1                                   | 13.9                                | 0.9                              | 1.6                                 | 19.0                        | 680.5                        |
|                   | 071121021205 | 10 x 2.5  | 0.53                           | 1                                   | 15.8                                | 1.25                             | 1.7                                 | 21.7                        | 908.2                        |
|                   | 071121221205 | 12 x 2.5  | 0.53                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 995.3                        |
|                   | 071121621205 | 16 x 2.5  | 0.53                           | 1.2                                 | 18.6                                | 1.25                             | 1.8                                 | 24.7                        | 1229.3                       |
|                   | 071122021205 | 20 x 2.5  | 0.53                           | 1.2                                 | 20.8                                | 1.25                             | 1.9                                 | 27.0                        | 1449.9                       |
|                   | 071122421205 | 24 x 2.5  | 0.53                           | 1.2                                 | 23.1                                | 1.25                             | 1.9                                 | 29.4                        | 1675.5                       |

# RE-2X(St)YSWAY - MULTICORE

REACH | RoHS | CE



## Standard

Adapted to EN 50288-7

## Cable Construction

**Conductor** : Annealed copper wires according to BS EN 60228

**Insulation** : Cross-linked polyethylene XLPE

**Colour Code** : Black, continuously numbered in white

**Wrapping** : 1 layer of PETP tape

**Collective Screen** : Aluminium / PETP tape over tinned copper drain wire

**Inner Sheath** : Polyvinyl chloride PVC

**Armour** : Galvanised round steel wires

**Cable Sheath** : Polyvinyl chloride PVC (Also available in halogen free construction, on request.)

**Colour** : Black. Blue for intrinsically safe system

## Technical Data

**Flame Propagation** : EN 60332-1-2

**Operating Temperature Range** : -30°C to +90°C

**Bending Radius** : 10 x cable diameter

**Operating Voltage** : 500V

\*Also available in 300V variant on request

Marking : RR KABEL RE-2X(St)YSWAY cxa 500V EN 50288-7 CE + 0001m

**c** - No. of cores

**a** - Cross sectional area

## Electrical Properties

| Conductor Cross Section (Sq.mm) | Class of Conductor | No. of Strands/ Max. Strand Diameter (mm) | Max. DC Conductor Resistance* at 20°C (Ω/km) | Max. L/R Ratio (μH/Ω) | Min. Insulation Resistance (GΩ x cm) | Max. Mutual Capacitance (nF/km) | Max. Inductance (mH/km) | Test Voltage V <sub>rms</sub> (Core-Core) | Test Voltage V <sub>rms</sub> (Core-Screen) |
|---------------------------------|--------------------|---|--|-----------------------|--------------------------------------|---------------------------------|-------------------------|---|---|
| 0.5                             | 2                  | 7/0.3                                     | 36.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.5                             | 5                  | 16/0.2                                    | 39.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 2                  | 7/0.37                                    | 24.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 0.75                            | 5                  | 24/0.2                                    | 26.0   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1                               | 2                  | 7/0.43                                    | 18.1   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1                               | 5                  | 32/0.2                                    | 19.5   | 25                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 1.5                             | 2                  | 7/0.53                                    | 12.1   | 40                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |
| 2.5                             | 2                  | 7/0.67                                    | 7.41   | 60                    | 5000                                 | 150                             | 1                       | 2000                                      | 2000  |

## Cable Design Parameters

|                   | Part Number  | No. of Cores & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 5 Conductor | 071250221050 | 2 x 0.5   | 0.44                           | 1                                   | 6.2                                 | 0.9                              | 1.4                                 | 10.8                        | 203.7                        |
|                   | 071250421050 | 4 x 0.5   | 0.44                           | 1                                   | 7.1                                 | 0.9                              | 1.4                                 | 11.8                        | 244                          |
|                   | 071250521050 | 5 x 0.5   | 0.44                           | 1                                   | 7.7                                 | 0.9                              | 1.5                                 | 12.4                        | 268.5                        |
|                   | 071250821050 | 8 x 0.5   | 0.44                           | 1                                   | 9.2                                 | 0.9                              | 1.5                                 | 14.1                        | 336.9                        |
|                   | 071251021050 | 10 x 0.5  | 0.44                           | 1                                   | 10.4                                | 0.9                              | 1.5                                 | 15.3                        | 386.3                        |
|                   | 071251221050 | 12 x 0.5  | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.6                                 | 15.6                        | 411.4                        |
|                   | 071251621050 | 16 x 0.5  | 0.44                           | 1                                   | 11.9                                | 0.9                              | 1.6                                 | 16.8                        | 475.6                        |
|                   | 071252021050 | 20 x 0.5  | 0.44                           | 1                                   | 13.2                                | 0.9                              | 1.6                                 | 18.2                        | 546.4                        |
|                   | 071252421050 | 24 x 0.5  | 0.44                           | 1                                   | 14.6                                | 0.9                              | 1.7                                 | 19.7                        | 627.5                        |
|                   | 071250221075 | 2 x 0.75  | 0.44                           | 1                                   | 6.6                                 | 0.9                              | 1.4                                 | 11.3                        | 220.6                        |
|                   | 071250421075 | 4 x 0.75  | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.3                        | 268.9                        |
|                   | 071250521075 | 5 x 0.75  | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 13.0                        | 297.8                        |
|                   | 071250821075 | 8 x 0.75  | 0.44                           | 1                                   | 9.9                                 | 0.9                              | 1.5                                 | 14.8                        | 379.1                        |
|                   | 071251021075 | 10 x 0.75   | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.1                        | 437.5                        |
|                   | 071251221075 | 12 x 0.75   | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.5                        | 469.2                        |
|                   | 071251621075 | 16 x 0.75   | 0.44                           | 1                                   | 12.8                                | 0.9                              | 1.6                                 | 17.8                        | 568.6                        |
|                   | 071252021075 | 20 x 0.75   | 0.44                           | 1                                   | 14.3                                | 0.9                              | 1.6                                 | 19.4                        | 634.1                        |
|                   | 071252421075 | 24 x 0.75   | 0.44                           | 1                                   | 15.8                                | 1.25                             | 1.7                                 | 21.7                        | 835.3                        |
|                   | 071250220001 | 2 x 1   | 0.44                           | 1                                   | 6.9                                 | 0.9                              | 1.4                                 | 11.6                        | 234.3                        |
|                   | 071250420001 | 4 x 1   | 0.44                           | 1                                   | 7.9                                 | 0.9                              | 1.5                                 | 12.7                        | 289.7                        |
|                   | 071250520001 | 5 x 1   | 0.44                           | 1                                   | 8.6                                 | 0.9                              | 1.5                                 | 13.4                        | 322.5                        |
|                   | 071250820001 | 8 x 1   | 0.44                           | 1                                   | 10.5                                | 0.9                              | 1.5                                 | 15.3                        | 415.1                        |
|                   | 071251020001 | 10 x 1  | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.8                        | 481.5                        |
|                   | 071251220001 | 12 x 1  | 0.44                           | 1                                   | 12.2                                | 0.9                              | 1.6                                 | 17.2                        | 519.2                        |
|                   | 071251620001 | 16 x 1  | 0.44                           | 1                                   | 13.5                                | 0.9                              | 1.6                                 | 18.6                        | 637.1                        |
|                   | 071252020001 | 20 x 1  | 0.44                           | 1                                   | 15.1                                | 1.25                             | 1.7                                 | 20.9                        | 808.4                        |
|                   | 071252420001 | 24 x 1  | 0.44                           | 1                                   | 16.7                                | 1.25                             | 1.7                                 | 22.7                        | 934.6                        |

|                   | Part Number  | No. of Cores & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 071220221050 | 2 x 0.5   | 0.44                           | 1                                   | 6.2                                 | 0.9                              | 1.4                                 | 10.8                        | 203.5                        |
|                   | 071220421050 | 4 x 0.5   | 0.44                           | 1                                   | 7.1                                 | 0.9                              | 1.4                                 | 11.8                        | 243.7                        |
|                   | 071220521050 | 5 x 0.5   | 0.44                           | 1                                   | 7.7                                 | 0.9                              | 1.5                                 | 12.4                        | 268.1                        |
|                   | 071220821050 | 8 x 0.5   | 0.44                           | 1                                   | 9.2                                 | 0.9                              | 1.5                                 | 14.1                        | 336.3                        |
|                   | 071221021050 | 10 x 0.5  | 0.44                           | 1                                   | 10.4                                | 0.9                              | 1.5                                 | 15.3                        | 385.5                        |
|                   | 071221221050 | 12 x 0.5  | 0.44                           | 1                                   | 10.7                                | 0.9                              | 1.6                                 | 15.6                        | 410.6                        |
|                   | 071221621050 | 16 x 0.5  | 0.44                           | 1                                   | 11.9                                | 0.9                              | 1.6                                 | 16.8                        | 474.5                        |
|                   | 071222021050 | 20 x 0.5  | 0.44                           | 1                                   | 13.2                                | 0.9                              | 1.6                                 | 18.2                        | 545.0                        |
|                   | 071222421050 | 24 x 0.5  | 0.44                           | 1                                   | 14.6                                | 0.9                              | 1.7                                 | 19.7                        | 625.8                        |
|                   | 071220221075 | 2 x 0.75  | 0.44                           | 1                                   | 6.6                                 | 0.9                              | 1.4                                 | 11.3                        | 221.1                        |
|                   | 071220421075 | 4 x 0.75  | 0.44                           | 1                                   | 7.6                                 | 0.9                              | 1.5                                 | 12.3                        | 269.5                        |
|                   | 071220521075 | 5 x 0.75  | 0.44                           | 1                                   | 8.2                                 | 0.9                              | 1.5                                 | 13.0                        | 298.4                        |
|                   | 071220821075 | 8 x 0.75  | 0.44                           | 1                                   | 10                                  | 0.9                              | 1.5                                 | 14.8                        | 379.9                        |
|                   | 071221021075 | 10 x 0.75   | 0.44                           | 1                                   | 11.2                                | 0.9                              | 1.6                                 | 16.2                        | 438.5                        |
|                   | 071221221075 | 12 x 0.75   | 0.44                           | 1                                   | 11.6                                | 0.9                              | 1.6                                 | 16.6                        | 470.2                        |
|                   | 071221621075 | 16 x 0.75   | 0.44                           | 1                                   | 12.9                                | 0.9                              | 1.6                                 | 17.9                        | 569.8                        |
|                   | 071222021075 | 20 x 0.75   | 0.44                           | 1                                   | 14.3                                | 0.9                              | 1.7                                 | 19.4                        | 635.5                        |
|                   | 071222421075 | 24 x 0.75   | 0.44                           | 1                                   | 15.9                                | 1.25                             | 1.7                                 | 21.8                        | 837.3                        |
|                   | 071220220001 | 2 x 1   | 0.44                           | 1                                   | 7.0                                 | 0.9                              | 1.4                                 | 11.7                        | 237.7                        |
|                   | 071220420001 | 4 x 1   | 0.44                           | 1                                   | 8.1                                 | 0.9                              | 1.5                                 | 12.8                        | 294.3                        |
|                   | 071220520001 | 5 x 1   | 0.44                           | 1                                   | 8.8                                 | 0.9                              | 1.5                                 | 13.5                        | 327.8                        |
|                   | 071220820001 | 8 x 1   | 0.44                           | 1                                   | 10.6                                | 0.9                              | 1.5                                 | 15.5                        | 422.5                        |
|                   | 071221020001 | 10 x 1  | 0.44                           | 1                                   | 12                                  | 0.9                              | 1.6                                 | 17.0                        | 490.3                        |
|                   | 071221220001 | 12 x 1  | 0.44                           | 1                                   | 12.4                                | 0.9                              | 1.6                                 | 17.4                        | 528.9                        |
|                   | 071221620001 | 16 x 1  | 0.44                           | 1                                   | 13.8                                | 0.9                              | 1.6                                 | 18.8                        | 649.3                        |
|                   | 071222020001 | 20 x 1  | 0.44                           | 1                                   | 15.3                                | 1.25                             | 1.7                                 | 21.2                        | 824.0                        |
|                   | 071222420001 | 24 x 1  | 0.44                           | 1.2                                 | 17.4                                | 1.25                             | 1.8                                 | 23.4                        | 982.5                        |
|                   | 071220221105 | 2 x 1.5   | 0.44                           | 1                                   | 7.7                                 | 0.9                              | 1.5                                 | 12.4                        | 268.0                        |
|                   | 071220421105 | 4 x 1.5   | 0.44                           | 1                                   | 8.8                                 | 0.9                              | 1.5                                 | 13.6                        | 340.2                        |
|                   | 071220521105 | 5 x 1.5   | 0.44                           | 1                                   | 9.6                                 | 0.9                              | 1.5                                 | 14.5                        | 382.2                        |
|                   | 071220821105 | 8 x 1.5   | 0.44                           | 1                                   | 11.8                                | 0.9                              | 1.6                                 | 16.7                        | 501.8                        |
|                   | 071221021105 | 10 x 1.5  | 0.44                           | 1                                   | 13.3                                | 0.9                              | 1.6                                 | 18.4                        | 587.1                        |
| 071221221105      | 12 x 1.5     | 0.44  | 1                              | 13.8                                | 0.9                                 | 1.6                              | 18.8                                | 638.9                       |                              |

|                   | Part Number  | No. of Cores & Nom. Cross Sectional Area (Sq. mm) | Min. Insulation Thickness (mm) | Nominal Inner Sheath Thickness (mm) | Approx. Dia. Over Inner Sheath (mm) | Nominal Dia. of Armour Wire (mm) | Nominal Outer Sheath Thickness (mm) | Approx. Cable Diameter (mm) | Approx. Cable Weight (kg/km) |
|-------------------|--------------|---|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Class 2 Conductor | 071221621105 | 16 x 1.5  | 0.44                           | 1                                   | 15.3                                | 1.25                             | 1.7                                 | 21.2                        | 860.4                        |
|                   | 071222021105 | 20 x 1.5  | 0.44                           | 1.2                                 | 17.5                                | 1.25                             | 1.8                                 | 23.5                        | 1033.7                       |
|                   | 071222421105 | 24 x 1.5  | 0.44                           | 1.2                                 | 19.4                                | 1.25                             | 1.8                                 | 25.5                        | 1202.6                       |
|                   | 071220221205 | 2 x 2.5   | 0.53                           | 1                                   | 8.9                                 | 0.9                              | 1.5                                 | 13.7                        | 325.0                        |
|                   | 071220421205 | 4 x 2.5   | 0.53                           | 1                                   | 10.3                                | 0.9                              | 1.5                                 | 15.2                        | 426.5                        |
|                   | 071220521205 | 5 x 2.5   | 0.53                           | 1                                   | 11.3                                | 0.9                              | 1.6                                 | 16.2                        | 484.6                        |
|                   | 071220821205 | 8 x 2.5   | 0.53                           | 1                                   | 13.9                                | 0.9                              | 1.6                                 | 19.0                        | 651.1                        |
|                   | 071221021205 | 10 x 2.5  | 0.53                           | 1                                   | 15.8                                | 1.25                             | 1.7                                 | 21.7                        | 871.3                        |
|                   | 071221221205 | 12 x 2.5  | 0.53                           | 1                                   | 16.4                                | 1.25                             | 1.7                                 | 22.3                        | 951.1                        |
|                   | 071221621205 | 16 x 2.5  | 0.53                           | 1.2                                 | 18.6                                | 1.25                             | 1.8                                 | 24.7                        | 1170.4                       |
|                   | 071122021205 | 20 x 2.5  | 0.53                           | 1.2                                 | 20.8                                | 1.25                             | 1.9                                 | 27.0                        | 1376.2                       |
|                   | 071122421205 | 24 x 2.5  | 0.53                           | 1.2                                 | 23.1                                | 1.25                             | 1.9                                 | 29.4                        | 1587.1                       |