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**Components for building-networking**

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# ETHERLINE®

Data communication systems  
for ETHERNET-Technology



## ETHERLINE® Cat.5e

### Fixed installation



#### Benefits

- Very low installation cost due to the use of Ethernet cables
- Screened against interference

#### Application range

- 10/100 Mbit/s for Industrial Ethernet
- Seamless communication from the sensor/actuator level to the Internet
- Industrial use
- Suitable for fixed installation in dry and damp rooms

#### Product features

- High-quality, double screening ensures high transmission reliability in areas with electro-magnetic interference

- PUR outer sheath is highly resistant to mineral oils and abrasion
- Halogen-free and flame-retardant FRNC outer sheath

#### Approvals



#### Design

- Solid conductor
- Core insulation made of foam skin
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Outer sheath as either PUR or LSZH
- Colour: water blue (RAL 5021)
- 2 or 4-pair version

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>2-pair version</b>					
<b>Halogen-free compound</b>					
2170280	ETHERLINE® H CAT.5e	2 x 2 x AWG24/1	5.8	22.0	45
<b>PUR outer sheath, halogen-free</b>					
2170281	ETHERLINE® P CAT.5e	2 x 2 x AWG24/1	5.8	22.0	53
<b>4-pair version</b>					
<b>Halogen-free compound</b>					
2170296	ETHERLINE® H CAT.5e	4 x 2 x AWG24/1	6.3	32.0	54
2170298	ETHERLINE® H-H CAT.5e	4 x 2 x AWG24/1	6.0 / 7.5	32.0	80
<b>Outer sheath: PUR, halogen-free</b>					
2170297	ETHERLINE® P CAT.5e	4 x 2 x AWG24/1	6.3	32.0	62

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.



#### Info

- Industrial Ethernet cable
- Cat.5e

#### Technical data



**Peak operating voltage**  
(not for power applications) 125 V



**Minimum bending radius**  
Fixed installation: see data sheet



**Test voltage**  
Core/core: 1000 V  
Core/screen: 500 V



**Temperature range**  
During installation: -5 °C to +60 °C  
Operation: see data sheet



**Characteristic impedance**  
100 Ohm +/- 15%

## ETHERLINE® Cat.5e FLEX

### Flexible use



#### Benefits

- For directly connecting two electric components
- Very low installation cost due to the use of Ethernet cables
- Screened against interference

#### Application range

- Suitable for fixed installation in dry and damp rooms
- 10/100 Mbit/s for Industrial Ethernet
- For flexible applications (7-wire stranded conductor)
- Industrial use

#### Product features

- Premium screening against electromagnetic interference
- Halogen-free outer sheath
- PUR outer sheath is highly resistant to mineral oils and abrasion

#### Design

- Stranded conductor, 7-wire, bare
- Core insulation made of foam skin
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Outer sheath as either PUR or LSZH
- Colour: water blue (RAL 5021)
- 2 or 4-pair version

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>2-pair version</b>					
<b>Halogen-free compound</b>					
2170283	ETHERLINE® H Flex CAT.5e	2 x 2 x AWG26/7	5.4	19.0	43
<b>PUR outer sheath, halogen-free</b>					
2170284	ETHERLINE® P Flex CAT.5e	2 x 2 x AWG26/7	5.8	19.0	45
<b>4-pair version</b>					
<b>Halogen-free compound</b>					
2170299	ETHERLINE® H Flex CAT.5e	4 x 2 x AWG26/7	6.1	25.0	48
<b>Outer sheath: PUR, halogen-free</b>					
2170300	ETHERLINE® P Flex CAT.5e	4 x 2 x AWG26/7	6.1	25.0	54

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#### Info

- Industrial Ethernet cable
- Cat.5e
- Only for patch cable applications (max. 60 m)

#### Technical data



**Peak operating voltage**  
(not for power applications) 125 V



**Minimum bending radius**  
See data sheet



**Test voltage**  
Core/core: 1000 V  
Core/screen: 500 V



**Temperature range**  
During installation: -5 °C to +60 °C  
Operation: see data sheet



**Characteristic impedance**  
100 Ohm +/- 15%



**Info**

- Industrial Ethernet cable
- For highly flexible applications
- Only for patch cable applications (max. 60 m)

**Benefits**

- Very low installation cost due to the use of Ethernet cables
- Screened against interference
- Seamless communication from the sensor/ actuator level to the Internet

**Application range**

- 10/100 Mbit/s for Industrial Ethernet
- Industrial use
- Power chain applications
- Dry or damp rooms

**Product features**

- High-quality, double screening ensures high transmission reliability in areas with electro-magnetic interference
- PUR outer sheath is highly resistant to mineral oils and abrasion

**Design**

- Braided conductor, 19-wire
- Inner sheath: thermoplastic elastomer, halogen-free
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- PUR outer sheath
- Colour: water blue (RAL 5021)
- 2 or 4-pair version

**ETHERLINE® Cat.5e FD**

Highly flexible application

**Technical data**

- Peak operating voltage**  
(not for power applications) 125 V
- Minimum bending radius**  
Flexing: 15 x outer diameter  
Fixed installation: 8 x outer diameter
- Test voltage**  
Core/core: 1000 V  
Core/screen: 500 V
- Temperature range**  
Flexing: -20 °C to +70 °C  
Fixed installation: -30 °C to +80 °C
- Characteristic impedance**  
100 Ohm +/- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>2-pair version</b>					
2170289	ETHERLINE® FD P CAT.5e	2 x 2 x AWG26/19	6.1	20.0	48
<b>4-pair version</b>					
2170489	ETHERLINE® FD P CAT.5e	4 x 2 x AWG26/19	6.3	27.0	54

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.



**Info**

- Suitable for outdoor use and direct burial
- Usable on the roads
- CAT.5-Performance

**Benefits**

- Very low installation cost due to the use of Ethernet cables
- Additional application options thanks to suitability for outdoor use, UV-resistant
- Good flexibility - easy installation with tight space requirements
- Screened against interference
- Easy to coil for mobile use

**Application range**

- Suitable for the transfer of audio signals (ETHERSOUND), light control signals (DMX over Ethernet), or for computer networking

**Product features**

- ETHERLINE® CAT.5 FD BK is a highly flexible, halogen-free, CATEGORY 5 high-speed data transmission cable, which specifically developed for road environments.
- Complies with standards EIA/TIA-568, TSB-36 and ISO/IEC IS 11801

**Approvals**



**Design**

- Bare stranded copper wire, 26AWG (19 x 0.10), (0.14 mm<sup>2</sup>)
- Insulation: foam skin, max. core diameter 1.0 mm
- Twisting: 2 twisted-pair cores, stranding from 4 pairs
- Inner sheath: halogen-free TPE compound  
Screening: braided tinned-copper wires, coverage of 85% ± 5
- Outer sheath: halogen-free PUR, black

**Technical data**

- Minimum bending radius**  
95 mm
- Temperature range**  
Flexible use: -5 °C to +50 °C  
Fixed installation: -40 °C to +70 °C

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
CE217489	4x2xAWG26/19	6.3	27.0	54

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges. Standard lengths: (100; 500; 1000) m. Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum. Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils). Photographs are not to scale and do not represent detailed images of the respective products.

**Similar products**

- ETHERLINE® FD P CAT.5

**ETHERLINE® Cat.5 FD BK**

The Ethernet cable for installation in events



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UNITRONIC®  
ETHERLINE®  
HITRONIC®  
EPIC®  
SKINTOP®  
SILVYN®  
FLEXIMARK®  
ACCESSORIES  
APPENDIX

## ETHERLINE® Cat.5 ARM

### Fixed installation

LAPP KABEL STUTTGART ETHERLINE® Y2Y ARM TYPE A CAT.5



#### Info

- Industrial Ethernet cable
- With armouring for improved rodent protection

#### Benefits

- Very low installation cost due to the use of Ethernet cables
- EMC-optimised
- Rodent-protection

#### Application range

- Can be used for Industrial Ethernet in harsh industrial environments
- 10/100 Mbit/s for Industrial Ethernet

#### Product features

- CAT.5-Performance

#### Design

- Solid and bare copper conductor
- Core insulation: PE
- Overlapping plastic tape
- Overall screening with copper braid and plastic-laminated aluminium foil
- Inner sheath made of PVC (green)
- 2 layer galvanzid steel tape
- Outer sheath made of black polyethylene (PE)

#### Technical data



##### Minimum bending radius

Fixed installation:  
10 x cable diameter  
Fixed installation: 5 x cable diameter, once



##### Test voltage

Core/core: 2000 V  
Core/screen: 2000 V



##### Temperature range

Operation: -40 °C to +70 °C  
During installation: -20°C to +60°C



##### Characteristic impedance

100 Ohm +/- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170496	ETHERLINE® Cat.5 ARM	2 x 2 x AWG22/1	9.3	30.4	124

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## ETHERLINE® Cat.5 FRNC HYBRID

### Flexible use

LAPP KABEL STUTTGART ETHERLINE® FRNC HYBRID



#### Info

- HYBRID: cable for data transmission + power supply

#### Benefits

- For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required

#### Application range

- Industrial Ethernet cable
- 10/100 Mbit/s for Industrial Ethernet
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

#### Product features

- Flame-retardant according to IEC 60332.1.2
- HYBRID: cable for data transmission + power supply

#### Design

- Colour: green (based on RAL 6018)
- Cores for Power Supply  
4 x 1.5 mm2 (AWG16)
- Data transfer: braided conductor, 7-wire, bare
- Screening: wrapped with foil and braided copper wires
- Twisting: data pairs and power supply pairs twisted together
- Overlapping plastic tape
- FRNC outer sheath

#### Technical data



##### Minimum bending radius

Fixed installation:  
10 x cable diameter  
Fixed installation: 5 x cable diameter, once



##### Test voltage

See data sheet



##### Temperature range

Operation: -20°C to +70°C



##### Characteristic impedance

100 Ohm +/- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170887	ETHERLINE® Cat.5 FRNC HYBRID	2x2xAWG22/7 + 4x1.5	10.3	94.2	153

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## ETHERLINE® PN Cat.5

Fixed installation



**Info**

- Conductor: AWG22 = PROFINET-compliant
- CAT.5/5e

**Benefits**

- For Profinet applications
- Screened against interference

**Application range**

- for industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702

**Product features**

- Fixed installation
- FC: "Fast Connect" cable design

- Flame-retardant according to IEC 60332-1-2
- ETHERLINE® Y FC version: flame-retardant according to IEC 60332-3

**Design**

- Solid and bare copper conductor
- Core insulation: PE
- Star quad
- Overall screening with copper braid and plastic-laminated aluminium foil
- Outer sheath made of PVC

**Technical data**

- Minimum bending radius**  
See data sheet
- Test voltage**  
See data sheet
- Temperature range**  
See data sheet
- Characteristic impedance**  
100 Ohm +- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170891	ETHERLINE® PN Cat.5e Y	2 x 2 x AWG22/1	6.4	30.4	56
<b>FC: "Fast Connect" cable design</b>					
2170893	ETHERLINE® Y FC UL/CSA (CMG) CAT.5	2 x 2 x AWG22/1	6.5	30.4	70
<b>Suitable for outdoor use and direct burial</b>					
2170494	ETHERLINE® PN Cat.5e YY	2 x 2 x AWG22/1	7.8	30.4	62

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## ETHERLINE® PN FLEX



**Info**

- for Profinet applications
- CAT.5-Performance
- Flexible use

**Benefits**

- Screened against interference
- Conductor: AWG22 = PROFINET-compliant

**Application range**

- for industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702

**Product features**

- Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test

**Design**

- Stranded 7-wire bare conductor
- Core insulation: PE
- Inner sheath made of PVC
- Overall screening with copper braid and plastic-laminated aluminium foil
- PVC-based outer sheath
- Colour: green

**Technical data**

- Minimum bending radius**  
Fixed installation: 7 x outer diameter  
Fixed installation: 3 x outer diameter
- Test voltage**  
Core/core: 2000 V  
Core/screen: 2000 V
- Temperature range**  
Operation: -40 °C to +70 °C
- Characteristic impedance**  
100 Ohm +- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170886	ETHERLINE® PN Cat.5 Y FLEX FC	2 x 2 x AWG22/7	6.5	31.3	67

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## ETHERLINE® PN Cat.5 FD



**Info**

- Highly flexible application
- for Profinet applications

**Benefits**

- Screened against interference
- Conductor: AWG22 = PROFINET-compliant

**Application range**

- Power chain applications
- Dry or damp rooms
- Industrial use

**Product features**

- PUR outer sheath is highly resistant to mineral oils and abrasion

- Flame-retardant according to IEC 60332.1.2

**Design**

- Stranded 7-wire bare conductor
- Inner sheath: thermoplastic copolymer (FRNC)
- Overall screening with copper braid and plastic-laminated aluminium foil
- PUR outer sheath
- Colour: green (based on RAL 6018)

**Technical data**

- Minimum bending radius**  
Flexing: 7.5 x outer diameter  
Fixed installation: 5 x cable diameter, once
- Test voltage**  
Core/core: 700 V  
Core/screen: 700 V
- Temperature range**  
Operation: -20°C to +70°C
- Characteristic impedance**  
100 Ohm +- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>For highly flexible applications (7-wire stranded conductor) = type C</b>					
2170894	ETHERLINE® FD P FC CAT.5	2 x 2 x AWG22/7	6.5	31.3	63

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

New

## ETHERLINE® Y Cat.5e BK 2x2AWG22/7



### Benefits

- UV and weather-resistant in black
- For flexible applications (7-wire stranded conductor) = type B
- FAST ETHERNET = 100 Mbit/s

### Application range

- Many applications with Industrial Ethernet, e.g. PROFINET type B, i.e. fixed installation and flexible use.
- Resistant to acids, alkalis and certain oils at room temperature

### Product features

- PVC compound TM2 acc. to VDE 0281-1 or HD 21.1

### Approvals



### Design

- Stranded conductor, 7-wire, bare
- Core insulation: Based on Polyolefin
- Star quad
- Aluminum-coated foil
- Screening braid made of tinned-copper wires
- PVC outer sheath

### Technical data

- Peak operating voltage**  
(not for power applications) 125 V
- Minimum bending radius**  
Fixed installation: 10 x outer diameter  
Flexing: 15 x outer diameter
- Test voltage**  
Core/core: 1000 V  
Core/screen: 500 V
- Temperature range**  
Flexing: -10°C to +70°C  
Fixed installation: -40°C to +80°C
- Characteristic impedance**  
At 1 - 100 MHz: 100 ± 15 Ohm

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170901	ETHERLINE® Y CAT.5e BK 2x2AWG22/7	2 x 2 x AWG22/7	6.2	30.4	59

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation)  
Photographs are not to scale and do not represent detailed images of the respective products.

## ETHERLINE® TORSION Cat. 5



### Benefits

- This cable is an important supplement to the range of ETHERLINE® Industrial Ethernet cables.
- Cable suitable for high torsion stress. Tested with more than 1 million bending cycles and a right/left movement of 180° per metre.

### Application range

- Many applications with Industrial Ethernet, e.g. PROFINET, i.e. fixed installation, flexible and highly flexible use as well as TORSION.

### Approvals



- UL AWM (Style 21161)

### Design

- Stranded conductor, tinned
- AWG 22 (19-wire)
- PE core insulation
- Star quad
- PUR outer sheath, halogen-free

### Product features

- Flame-retardant according to IEC 60332.1.2
- Outer sheath with high abrasion-resistance

**Info**

- Industrial Ethernet Cable, 2-pair, suitable for torsion stress

### Technical data

- Peak operating voltage**  
max. 100 V (not for power applications)
- Minimum bending radius**  
Installation: 5 x outer diameter
- Test voltage**  
700 V
- Temperature range**  
-40°C to +80°C
- Characteristic impedance**  
At 1 - 100 MHz: 100 ± 15 Ohm

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170888	ETHERLINE® TORSION CAT.5	2 x 2 x AWG22/19	6.5	31.3	52

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation)  
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### Accessories

- Multipurpose shears A and B refer to page 902
- SMARTSTRIP stripping tool refer to page 907

## ETHERLINE® Cat.6<sub>A</sub> + Cat.7 Fixed installation



**Info**

- Industrial Ethernet cable

**Benefits**

- Screened against interference
- Cat.6<sub>A</sub> = 500 MHz
- Cat.7 = 600 MHz

**Application range**

- Can be used for Industrial Ethernet in harsh industrial environments
- Can be used in dry or damp rooms

**Product features**

- PUR outer sheath is highly resistant to mineral oils and abrasion

- Robust, halogen-free outer sheath
- PVC outer sheath

**Approvals**



**Design**

- Solid bare copper wire AWG22
- Core insulation made of polyethylene (PE)
- Overall screening with copper braid and plastic-laminated aluminium foil
- Colour: green

**Technical data**

**Z<sub>∞</sub>** Characteristic impedance  
100 ohm at 1 - 100 MHz

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170466	ETHERLINE® Cat. 6 <sub>A</sub> H	4 x 2 x AWG22 / 1	8.7	53.0	99
2170476	ETHERLINE® CAT.7 H	4 x 2 x AWG22 / 1	8.7	53.0	99
2170465	ETHERLINE®CAT. 6 <sub>A</sub> P	4 x 2 x AWG22 / 1	8.7	53.0	91
2170475	ETHERLINE® Cat.7 P	4 x 2 x AWG22 / 1	8.7	53.0	91
2170464	ETHERLINE® Cat. 6 <sub>A</sub> Y	4 x 2 x AWG22 / 1	8.7	53.0	98
2170474	ETHERLINE® Cat.7 Y	4 x 2 x AWG22 / 1	8.7	53.0	98

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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**Accessories**

- DATA STRIP stripping tool refer to page 907



**Info**

- CAT.6 for drag chain!
- Only for patch cable applications (max. 60 m)

**Benefits**

- PUR outer sheath is highly resistant to most oils, abrasion, and UV-radiation
- Premium screening against electromagnetic interference

**Application range**

- For use in power chains and moving machinery parts in dry or damp rooms

**Product features**

- Flame-retardant according to IEC 60332.1.2

**Approvals**



- UL/CSA type CMX (UL 444)

**Design**

- Stranded conductor, tinned
- AWG 26 (19-wire)
- PP core insulation
- Inner sheath: thermoplastic copolymer (FRNC)
- PUR outer sheath, halogen-free
- Colour: green (based on RAL 6018)

**Suitable connectors**

- Field-Terminable Connector RJ45 CAT.5e FM45 418
- Connector RJ45 Cat.6A fieldmountable 419

**Technical data**

**⚡ Peak operating voltage**  
max. 100 V (not for power applications)

**⤵ Minimum bending radius**  
Fixed installation:  
4 x outer diameter  
Flexing: 7.5 x outer diameter

**⚡ Test voltage**  
700 V

**🌡 Temperature range**  
Fixed installation: -40°C to +80°C  
Flexing: -30°C to +80°C

**Z<sub>∞</sub> Characteristic impedance**  
At 1 - 100 MHz: 100 ± 15 Ohm

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170488	ETHERLINE® FD P.CAT.6	4 x 2 x AWG26 / 19	7.8	31.7	63

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: [www.lappgroup.com](http://www.lappgroup.com)

New

## UNITRONIC® LAN 200 - CAT.5e



**Info**

- EIA = Electronic Industries Association
- TIA = Telecommunication Industries Association
- TSB = Technical Systems Bulletin

### Benefits

- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

### Application range

- Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).
- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

### Product features

- Transfer of digital and analogue data signals
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T  
IEEE 802.5: ISDN; FDDI; ATM

### Approvals



- Class D in ISO/IEC 11801 standard corresponds to CAT.5
- LAN CAT.5e cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36, as well as ISO/IEC 11801 or EN 50173 (Class D).

### Design

- U/UTP: no overall or pair shielding
- F/UTP: foil screening as overall screening
- SF/UTP: copper braid and foil screening as overall screening
- Solid conductor
- Outer sheath either as PVC or LSZH

### Technical data

- Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter
- Temperature range**  
Operating temperature: -20°C to +60°C  
During installation: 0 °C to +50 °C
- Characteristic impedance**  
100 Ohm +/- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>PVC version</b>					
2170125	200 U/UTP Cat.5e	4 x 2 x AWG24/1	5.6	17.0	32
2170126	200 F/UTP Cat.5e	4 x 2 x AWG24/1	6.4	18.0	42
2170128	200 SF/UTP Cat.5e	4 x 2 x AWG24/1	6.7	32.0	60
<b>Halogen-free versions</b>					
2170185	200 U/UTP Cat.5e LSZH	4 x 2 x AWG24/1	5.6	17.0	
2170138	200 SF/UTP Cat.5e LSZH	4 x 2 x AWG24/1	6.7	32.0	61

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: Coil 100 m; Drum (500; 1000) m  
Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable.  
Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Connector RJ45 CAT.5 Hirose TM11 refer to page 418
- Connector RJ45 CAT.5 Stewart SS37 refer to page 418
- Field-Terminable Connector RJ45 CAT.5e FM45 refer to page 418
- DATA STRIP stripping tool refer to page 907

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**New**

## UNITRONIC® LAN 250 - CAT.6



**Info**

- EIA = Electronic Industries Association
- TIA = Telecommunication Industries Association
- TSB = Technical Systems Bulletin



**Benefits**

- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

**Application range**

- Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).

**Product features**

- Transfer of digital and analogue data signals
- LAN Cat.6 cables are specified up to 350 MHz
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T  
IEEE 802.5: ISDN; FDDI; ATM

**Approvals**



- Class E out of the standard ISO/IEC 11801 corresponds to CAT.6
- LAN CAT.6 cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36, as well as ISO/IEC 11801 or EN 50173 (Class E - permanent link).

**Design**

- U/UTP: no overall or pair shielding
- F/UTP: foil screening as overall screening
- Solid conductor
- Outer sheath either as PVC or LSZH

**Technical data**

- Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter
- Temperature range**  
Operating temperature: -20°C to +60°C  
During installation: 0 °C to +50 °C
- Characteristic impedance**  
100 Ohm +/- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)
<b>PVC versions</b>				
2170186	250 U/UTP Cat.6	4 x 2 x AWG24/1	6.5	18.0
<b>Halogen-free versions</b>				
2170193	250 U/UTP Cat.6 LSZH	4 x 2 x AWG24/1	6.5	18.0
2170194	250 F/UTP Cat.6 LSZH	4 x 2 x AWG24/1	7.5	19.0

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

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New

# UNITRONIC® LAN 500 - Cat.6<sub>A</sub>



Info

- EIA = Electronic Industries Association
- TIA = Telecommunication Industries Association
- TSB = Technical Systems Bulletin

### Benefits

- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

### Application range

- Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).
- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

### Product features

- Transfer of digital and analogue data signals
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T, 10GBase-T  
IEEE 802.5: ISDN; FDDI; ATM

### Approvals



- Class E<sub>A</sub> out of the standard ISO/IEC 11801 corresponds to Cat.6<sub>A</sub>
- LAN Cat.6<sub>A</sub> cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36, as well as ISO/IEC 11801 or EN 50173 (Class E<sub>A</sub> - permanent link).

### Design

- U/FTP: aluminium compound foil as pair screening
- F/FTP: aluminium compound foil as overall screening and pair screening
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Solid conductor
- Outer sheath either as PVC or LSZH

### Technical data

- Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter
- Temperature range**  
Operating temperature: -20°C to +60°C  
During installation: 0 °C to +50 °C
- Characteristic impedance**  
100 Ohm +/- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>PVC version</b>					
2170143	500 S/FTP Cat.6 <sub>A</sub>	4 x 2 x AWG23/1	7.7	27.0	53
<b>Halogen-free versions</b>					
2170195	500 U/FTP Cat.6 <sub>A</sub> LSZH	4 x 2 x AWG23/1	7.4	21.0	
2170196	500 F/FTP Cat.6 <sub>A</sub> LSZH	4 x 2 x AWG23/1	7.6	22.0	

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil 100 m; Drum (500; 1000) m

CAT.6a is available as a draft

Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable.

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Connector RJ45 CAT.6 Hirose TM21 refer to page 419
- DATA STRIP stripping tool refer to page 907

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**New**

## UNITRONIC® LAN 1000 S/FTP Cat.7



**Info**

- EIA = Electronic Industries Association
- TIA = Telecommunication Industries Association
- TSB = Technical Systems Bulletin



**Benefits**

- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

**Application range**

- Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).
- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

**Product features**

- Transfer of digital and analogue data signals
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T, 10GBase-T  
IEEE 802.5: ISDN; FDDI; ATM; cable sharing  
IEEE 802.3at: suitable for PoE

**Approvals**



- Class F in the ISO/IEC 11801 standard corresponds to CAT.7

**Design**

- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Solid conductor
- Outer sheath: halogen-free, flame-retardant compound

**Technical data**

**Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter

**Temperature range**  
Operating temperature: -20°C to +60°C  
During installation: 0 °C to +50 °C

**Characteristic impedance**  
100 Ohm ± 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>Halogen-free versions</b>					
2170614	1000 S/FTP Cat.7 LSZH	4 x 2 x AWG23/1	7.7	27.0	78
2170634	1000 S/FTP Cat.7 duplex	2 x (4 x 2 x AWG23/1)	7.7 x 15.4	54.0	156

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: Coil 100 m; Drum (500; 1000) m  
Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable.  
Photographs are not to scale and do not represent detailed images of the respective products.

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New

## UNITRONIC® LAN 1200 S/FTP Cat.7<sub>A</sub>

LAPP KABEL STUTTGART UNITRONIC® LAN S/FTP 1200 MHz Cat.7A

### Benefits

- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

### Application range

- Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).
- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

### Product features

- Transfer of digital and analogue data signals
- The cable is specified for up to 1.2 GHz
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T, 10GBase-T  
IEEE 802.5: ISDN; FDDI; ATM; cable sharing  
IEEE 802.3at: suitable for PoE

### Approvals



- LAN Cat.7<sub>A</sub> cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36 as well as ISO/IEC 11801 or EN 50173 (Class F<sub>A</sub> - permanent link).
- Exceeds the requirements of EN 50173 and ISO/IEC 11801 standards

### Design

- Solid bare copper wire AWG22
- Cellular polyolefin core insulation, max. core diameter 1.6 mm
- Pair screen made of aluminium-lined plastic foil, overall screening made of tinned-copper braiding
- Outer sheath: halogen-free, flame-retardant compound
- Colour: yellow (RAL 7032)



### Info

- Complies with the EN 50173 and ISO/IEC 11801 standards

### Technical data



**Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter



**Temperature range**  
Operating temperature: -20°C to +60°C  
During installation: 0 °C to +50 °C



**Characteristic impedance**  
100 Ohm ± 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170615	1200 S/FTP Cat. 7 <sub>A</sub> LSZH	4 x 2 x AWG22/1	8.1	34.0	80

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Drum

Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable.

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Multipurpose shears A and B refer to page 902
- DATA STRIP stripping tool refer to page 907

New

## UNITRONIC® LAN 1500 S/FTP Cat.7<sub>A</sub>

LAPP KABEL STUTTGART UNITRONIC® LAN S/FTP 1500 MHz Cat.7A

### Benefits

- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

### Application range

- Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).

### Product features

- Transfer of digital and analogue data signals
- Cable is specified for up to 1.5 GHz
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T, 10GBase-T  
IEEE 802.5: ISDN; FDDI; ATM; cable sharing  
IEEE 802.3at: suitable for PoE, VoIP

### Approvals

- LAN Cat.7<sub>A</sub> cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36 as well as ISO/IEC 11801 or EN 50173 (Class F<sub>A</sub> - permanent link).
- Exceeds the requirements of EN 50173 and ISO/IEC 11801 standards

### Design

- Solid bare copper wire AWG22
- Cellular polyolefin core insulation, max. core diameter 1.6 mm
- Pair screen made of aluminium-lined plastic foil, overall screening made of tinned-copper braiding
- Outer sheath: halogen-free, flame-retardant compound
- Colour: yellow (RAL 7032)



### Info

- Complies with the EN 50173 and ISO/IEC 11801 standards

### Technical data



**Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter



**Temperature range**  
Operating temperature: -20°C to +60°C  
During installation: 0 °C to +50 °C



**Characteristic impedance**  
100 Ohm ± 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)
2170199	1500 S/FTP Cat. 7 <sub>A</sub> LSZH	4 x 2 x AWG22/1	8.5	42.0

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: [www.lappgroup.com](http://www.lappgroup.com)

**New**

## UNITRONIC® LAN OUTDOOR



**Info**

- Data cable for primary, secondary and tertiary cabling with PE outer sheath for outdoor applications

**Benefits**

- Suitable for outdoor use and direct burial
- UV and water-resistant
- LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

**Application range**

- For outdoor use
- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

**Product features**

- Transfer of digital and analogue data signals
- The characteristic impedance of this cable is 100 Ohm ± 15 %
- IEEE 802.3: 10/100/1000Base-T, 10GBase-T
- IEEE 802.5: ISDN; FDDI; ATM; cable sharing
- IEEE 802.3at: suitable for PoE



**Approvals**

- LAN Cat.7 cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36, as well as ISO/IEC 11801 or EN 50173 (Class F - permanent link).

**Design**

- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Solid conductor
- Core insulation: foamed polyolefin
- PE outer sheath
- Colour: black (RAL 9005)

**Technical data**

- Minimum bending radius**  
During installation: 10 x outer diameter  
Fixed installation: 4 x outer diameter
- Temperature range**  
Operation: up to +60 °C  
During installation: -15 °C to +60 °C
- Characteristic impedance**  
100 Ohm ± 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>Suitable for direct burial</b>					
2170198	1000 S/FTP Cat.7 (L)PE	4 x 2 x AWG23/1	10.0	34.0	72
<b>Suitable for direct routing underground, not transversely waterproof</b>					
2170197	1000 S/FTP Cat.7 PE	4 x 2 x AWG23/1	9.6	34.0	75

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

**New**

## UNITRONIC® LAN FLEX

Flexible use



**Info**

- Only for patch cable applications (max. 60 m)

**Benefits**

- For directly connecting two electric components
- Easy to assemble

**Application range**

- Indoor applications
- LAN connections
- Control cabinet wiring

**Product features**

- Good flexibility - easy installation with tight space requirements

**Design**

- F/UTP: foil screening as overall screening
- SF/UTP: copper braid and foil screening as overall screening
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Outer sheath either as PVC or LSZH

**Technical data**

- Minimum bending radius**  
during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter
- Characteristic impedance**  
100 Ohm ± 15%



Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>PVC versions</b>					
2170127	200 F/UTP Cat.5e	4 x 2 x AWG26/7	5.6	13.0	30
2170129	200 SF/UTP Cat.5e	4 x 2 x AWG26/7	6.0	22.0	41
2170144	600 S/FTP CAT7 Y	4 x 2 x AWG26/7	6.5	22.0	40
<b>Halogen-free versions</b>					
2170137	200 F/UTP Cat.5e LSZH	4 x 2 x AWG26/7	5.6	13.0	31
2170139	200 SF/UTP Cat.5e LSZH	4 x 2 x AWG26/7	6.0	22.0	42

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## Patchcable RJ45 CAT.5e



### Product features

- FTP patch cable CAT.5e
- Foil screening, 300 MHz, grey, FRNC, with Hirose TM 11 connector, also available in different colours, allocation according to TIA/EIA 568B
- S-FTP patch cable CAT.5e
- Foil and braid screening, 300 MHz, grey, FRNC, with Hirose TM 11 connector, also available in different colours, allocation according to TIA/EIA 568B

### Approvals



Article number	Article designation	Colour	Length (m)	PU
<b>FTP patch cable CAT.5e</b>				
CE6547	Patchcable RJ45 CAT.5e FTP 0.5m	grey	0.5	5 pieces
CE6548	Patchcable RJ45 CAT.5e FTP 1.0m	grey	1.0	5 pieces
CE6549	Patchcable RJ45 CAT.5e FTP 1.5m	grey	1.5	5 pieces
CE6550	Patchcable RJ45 CAT.5e FTP 2.0m	grey	2.0	5 pieces
CE6551	Patchcable RJ45 CAT.5e FTP 3.0m	grey	3.0	5 pieces
CE6552	Patchcable RJ45 CAT.5e FTP 5.0m	grey	5.0	5 pieces
CE6553	Patchcable RJ45 CAT.5e FTP 7.5m	grey	7.5	5 pieces
CE6554	Patchcable RJ45 CAT.5e FTP 10.0m	grey	10.0	5 pieces
CE6555	Patchcable RJ45 CAT.5e FTP 15.0m	grey	15.0	1 piece
CE6556	Patchcable RJ45 CAT.5e FTP 20.0m	grey	20.0	1 piece
<b>S-FTP patch cable CAT.5e</b>				
CE6647	Patchcable RJ45 CAT.5e S-FTP 0.5m	grey	0.5	5 pieces
CE6648	Patchcable RJ45 CAT.5e S-FTP 1.0m	grey	1.0	5 pieces
CE6649	Patchcable RJ45 CAT.5e S-FTP 1.5m	grey	1.5	5 pieces
CE6650	Patchcable RJ45 CAT.5e S-FTP 2.0m	grey	2.0	5 pieces
CE6651	Patchcable RJ45 CAT.5e S-FTP 3.0m	grey	3.0	5 pieces
CE6652	Patchcable RJ45 CAT.5e S-FTP 5.0m	grey	5.0	5 pieces
CE6653	Patchcable RJ45 CAT.5e S-FTP 7.5m	grey	7.5	5 pieces
CE6654	Patchcable RJ45 CAT.5e S-FTP 10.0m	grey	10.0	5 pieces
CE6655	Patchcable RJ45 CAT.5e S-FTP 15.0m	grey	15.0	1 piece
CE6656	Patchcable RJ45 CAT.5e S-FTP 20.0m	grey	20.0	1 piece

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Other colours are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## Patchcable RJ45 CAT.6 S-STP



### Product features

- PiMF 500 MHz, with Hirose TM21 connector
- Halogen-free
- Configuration is in accordance with TIA/EIA 568B
- Colour: grey; other colours are available upon request

### Approvals



Article number	Article designation	Colour	Length (m)	PU
<b>S-STP patch cable CAT.6</b>				
CE6847	Patchcable RJ45 CAT.6 S-STP 0.5m	grey	0.5	5 pieces
CE6848	Patchcable RJ45 CAT.6 S-STP 1.0m	grey	1.0	5 pieces
CE6849	Patchcable RJ45 CAT.6 S-STP 1.5m	grey	1.5	5 pieces
CE6850	Patchcable RJ45 CAT.6 S-STP 2.0m	grey	2.0	5 pieces
CE6851	Patchcable RJ45 CAT.6 S-STP 3.0m	grey	3.0	5 pieces
CE6852	Patchcable RJ45 CAT.6 S-STP 5.0m	grey	5.0	5 pieces
CE6853	Patchcable RJ45 CAT.6 S-STP 7.5m	grey	7.5	5 pieces
CE6854	Patchcable RJ45 CAT.6 S-STP 10.0m	grey	10.0	5 pieces
CE6855	Patchcable RJ45 CAT.6 S-STP 15.0m	grey	15.0	1 piece
CE6856	Patchcable RJ45 CAT.6 S-STP 20.0m	grey	20.0	1 piece

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Other colours are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## LANmark-6 RJ45 Patchcord

### Product features

- 10Gigabit Ethernet
- The patchcord fully complies to Category 6, maximising the channel performance and exceeding the requirements of ISO/IEC 11801:2002 as part of a LANmark-6 wiring of Class E. This offers an improved data transmission rates and enables the inclusion of consolidation points for maximum system flexibility.
- Halogen-free, flame-retardant sheath with lower smoke development
- Screened version

### Approvals



Article number	Article designation	Colour	Length (m)	PU
<b>LANmark-6 RJ45 Patchcord</b>				
CE6147	LANmark-6 RJ45 Patchcord 0.5m	orange	0.5	1 piece
CE6148	LANmark-6 RJ45 Patchcord 1.0m	orange	1.0	1 piece
CE6149	LANmark-6 RJ45 Patchcord 1.5m	orange	1.5	1 piece
CE6150	LANmark-6 RJ45 Patchcord 2.0m	orange	2.0	1 piece
CE6151	LANmark-6 RJ45 Patchcord 3.0m	orange	3.0	1 piece
CE6152	LANmark-6 RJ45 Patchcord 5.0m	orange	5.0	1 piece
CE6154	LANmark-6 RJ45 Patchcord 10.0m	orange	10.0	1 piece
CE6155	LANmark-6 RJ45 Patchcord 15.0m	orange	15.0	1 piece

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## LANmark-7 GG45 Patchcord

### Product features

- The LANmark-7 Patchcable with two four-paired, non-switched CAT.7 connectors makes it possible to operate one GG45 Permanent Link in 600 MHz mode.
- Screened version
- 2 x GG45 4-pair, backward-incompatible plug
- Low smoke zero halogen (LSZH)

### Approvals



Article number	Article designation	Colour	Length (m)	PU
<b>LANmark-7 RJ45 Patchcord GG45</b>				
60641	LANmark-7 GG45 Patchcord 1.0m	orange	1.0	1 piece
60642	LANmark-7 GG45 Patchcord 2.0m	orange	2.0	1 piece
60643	LANmark-7 GG45 Patchcord 3.0m	orange	3.0	1 piece
60644	LANmark-7 GG45 Patchcord 5.0m	orange	5.0	1 piece
60645	LANmark-7 GG45 Patchcord 10.0m	orange	10.0	1 piece

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## S-FTP Patchcable Crossover RJ45 CAT.5e



### Product features

- For interconnecting two computers without the use of a central active component (hub, switch...).

- Foil and braid screening, 150 MHz
- Halogen-free
- Hirose TM 11 connector
- Outer sheath and anti-kink sleeve colour: red

### Approvals



Article number	Article designation	Colour	Length (m)	PU
<b>Crossover patch cable</b>				
CE6660	Crossover Patchcable RJ45 CAT.5e S-FTP 2.0m	red	2.0	5 pieces
CE6661	Crossover Patchcable RJ45 CAT.5e S-FTP 3.0m	red	3.0	5 pieces
CE6662	Crossover Patchcable RJ45 CAT.5e S-FTP 5.0m	red	5.0	5 pieces
CE6664	Crossover Patchcable RJ45 CAT.5e S-FTP 10.0m	red	10.0	5 pieces

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## Connector RJ45 CAT.5 Hirose TM 11



### Product features

- Screened version
- Suitable for stranded conductors (AWG26)
- Included: bend protection and guide plate
- Anti-kink protection: beige
- Max. outer sheath diameter: 5.8 mm

### Approvals



Article number	Article designation	PU
CE6321	Connector RJ45 CAT.5 Hirose TM 11	50 pieces

Hirose is a registered trademark of the HIROSE ELECTRIC Group

Other colours are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Crimping tool RJ45 Hirose refer to page 420

## Connector RJ45 CAT.5 Stewart SS37



### Product features

- Screened version
- Suitable for stranded conductors (AWG26)
- Included: bend protection and guide plate
- Anti-kink protection: light grey
- Max. outer sheath diameter: 5.72 mm

### Approvals



Article number	Article designation	PU
CE6323	Connector RJ45 CAT.5 Stewart SS37	50 pieces

Stewart is a registered trademark of Bel Fuse Inc.

Other colours are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Crimping tool RJ45 Stewart refer to page 420

## Field-Terminable Connector RJ45 CAT.5e FM45



### Product features

- Screened version
- FM45 is a tool-free switchable, field-terminable RJ45 Connector with IDC contacting and CAT.5e performance. The 8-pin connection is tension and vibration-resistant, and can be re-switched. The connecting block can accommodate both screened and unscreened cable of up to 8 mm diameter.
- Suitable for AWG 23 - 26, AWG 22 possible with restrictions
- IDC/piercing terminal according to 60352-4
- Suitable for solid and stranded conductors
- Suitable for use in industrial applications
- Protection rating: IP20

### Approvals



Article number	Article designation	PU
21700540	Field-Terminable Connector RJ45 CAT.5e FM45	1 piece

Photographs are not to scale and do not represent detailed images of the respective products.

## Connector RJ45 CAT.6 Hirose TM21

### Product features

- Channel Class E up to 250 MHz (CAT.6)
- Fully screened
- Conductor: Ø 0.5 mm solid wire:  
AWG 24 & 26;  
guide plate for 1.1 mm diameter wire;  
cable outer diameter: 6.6 mm
- Easy to handle
- Included: bend protection and guide plate
- Anti-kink protection: beige
- Suitable for solid and stranded conductors

### Approvals



Article number	Article designation	PU
CE6324	Connector RJ45 CAT.6 Hirose TM21	50 pieces

Hirose is a registered trademark of the HIROSE ELECTRIC Group  
Other colours are available upon request.  
Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Crimping tool RJ45 Hirose refer to page 420

**New**

## Connector RJ45 Cat.6<sub>A</sub> fieldmountable

### Product features

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- Qualified for 10 Gigabit Ethernet
- Housing: zinc die-casting, grey

- By a multi-level relief setting the connector can accommodate a cable diameter from 5,0 mm up to 9,0 mm
- Suitable for stranded cores with AWG27/7 -22/7 and for solid conductors with AWG24/1- 22/1
- Suitable for use in industrial applications
- Available with colour code T568A or T568B



Article number	Article designation	PU
21700600	EPIC® DATA ED-IE-AX-6 <sub>A</sub> -A-20-FC	10 pieces
21700601	EPIC® DATA ED-IE-AX-6 <sub>A</sub> -B-20-FC	10 pieces

## Crimping tool RJ45 Hirose



### Product features

- Crimping tool for RJ45 connector Hirose TM11 and TM21
- Crimping tool for RJ45 connector Hirose TM11 and TM21
- Crimping tool for RJ45 connector CAT.6 Hirose TM21

### Approvals



Article number	Article designation	PU
CE5091	Crimping tool RJ45 Hirose TM11/TM21 8-pole	1 piece

Hirose is a registered trademark of the HIROSE ELECTRIC Group  
Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Connector RJ45 CAT.5 Hirose TM11 refer to page 418
- Connector RJ45 CAT.6 Hirose TM21 refer to page 419

## Crimping tool RJ45 Stewart



### Product features

- Crimping tool for RJ45 connector CAT.5 Stewart SS37
- Crimping tool for RJ45 connector CAT.5 Stewart SS37
- Crimping tool for RJ plug 4, 6, 6-DEC and 8-pin

### Approvals



Article number	Article designation	PU
CE5093	Crimping tool RJ45 Stewart SS37 8-pole	1 piece
CE5092	Crimping tool RJ 4-, 6-, 6-DEC- and 8-pole	1 piece

Stewart is a registered trademark of Bel Fuse Inc.  
Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Connector RJ45 CAT.5 Stewart SS37 refer to page 418

## LANmark-5 EVO SnapIn Connector

### Product features

- CAT.5e socket screened incl. EMC cover
- Suitable for AWG 22, 23 and 24
- Colour-coded in accordance with EIA/TIA 568A and B
- Fast and optimised termination of all 8 cores
- Suitable for modular components
- All services of CAT.5/Class D according to EN 50173:2002 and ISO/IEC 11801:2002 are supported:

- 10BaseT
- Fast Ethernet
- Gigabit Ethernet
- 155 ATM, 622 ATM, 1.2 ATM

### Approvals



Article number	Article designation	PU
61103	LANmark-5 EVO SnapIn Connector	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

### Similar products

- LANmark-5 EVO SnapIn Connector AWG26 refer to page 421
- LANmark-7 GG45 SnapIn Connector refer to page 422

### Accessories

- Comfort Tool refer to page 422
- Easy Termination Tool refer to page 422

## LANmark-5 EVO SnapIn Connector AWG26

### Product features

- Especially suited to stranded conductors (Consolidation Point) AWG26 and 27
- Colour-coded in accordance with EIA/TIA 568A and B
- Fast and optimised termination of all 8 cores
- Suitable for modular components
- All services of CAT.5/Class D according to EN 50173:2002 and ISO/IEC 11801:2002 are supported:

- 10BaseT
- Fast Ethernet
- Gigabit Ethernet
- 155 ATM, 622 ATM, 1.2 ATM

### Approvals



Article number	Article designation	PU
61102	LANmark-5 EVO SnapIn Connector AWG26	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## LANmark-6 EVO SnapIn Connector

### Product features

- CAT.6 socket screened incl. EMC cover
- Suitable for AWG 22, 23 and 24
- Colour-coded in accordance with EIA/TIA 568A and B
- Fast and optimised termination of all 8 cores
- Suitable for modular components
- All services of CAT.6/Class E according to EN 50173:2002 and ISO/IEC 11801:2002 are supported:

- 10BaseT
- Fast Ethernet
- Gigabit Ethernet
- 155 ATM, 622 ATM, 1.2 ATM

### Approvals



Article number	Article designation	PU
62104	LANmark-6 EVO SnapIn Connector	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## LANmark-6 EVO SnapIn Connector AWG26

### Product features

- CAT.6 socket screened incl. EMC cover
- Colour-coded in accordance with EIA/TIA 568A and B
- Colour-coded in accordance with EIA/TIA 568A and B
- Fast and optimised termination of all 8 cores
- Suitable for modular components
- All services of CAT.6/Class E according to EN 50173:2002 and ISO/IEC 11801:2002 are supported:

- 10BaseT
- Fast Ethernet
- Gigabit Ethernet
- 155 ATM, 622 ATM, 1.2 ATM

### Approvals



Article number	Article designation	PU
62105	LANmark-6 EVO SnapIn Connector AWG26	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## LANmark-6 EVO SnapIn Connector 10G



### Product features

- Suitable for AWG 22, 23 and 24
- Colour-coded in accordance with EIA/TIA 568A and B
- Fast and optimised termination of all 8 cores
- Suitable for modular components
- All services of CAT.6/Class E according to EN 50173:2002 and ISO/IEC 11801:2002, as well as for 10 Gigabit Ethernet according to IEEE 802.3an draft 1.11, are supported:

- 10BaseT
- Fast Ethernet
- Gigabit Ethernet
- 10Gigabit Ethernet
- 155 ATM, 622 ATM, 1.2 ATM

### Approvals



Article number	Article designation	PU
62106	LANmark-6 EVO SnapIn Connector 10G	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## LANmark-7 GG45 SnapIn Connector



### Product features

- CAT.7 GG45 socket screened incl. EMC cover
- Suitable for AWG 22, 23 and 24
- Colour-coded in accordance with EIA/TIA 568A and B
- Fast and optimised termination of all 8 cores
- Suitable for modular components
- All applications defined for CAT.5 / 6 and 7 are supported:

- 10BaseT
- Fast Ethernet
- Gigabit Ethernet
- 10Gigabit Ethernet
- 155 ATM, 622 ATM, 1.2 ATM

### Approvals



Article number	Article designation	PU
63103	LANmark-7 GG45 SnapIn Connector	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## Comfort Tool



### Product features

- This tool is recommended for quick, easy and reliable installation of SnapIn connectors. All 8 cores are terminated in one simple step.
- The marking on the pliers defines the correct stripping dimension.

### Approvals



Article number	Article designation	PU
60501	Comfort Tool	1 piece

Photographs are not to scale and do not represent detailed images of the respective products.

## Easy Termination Tool



### Product features

- Precise and fast removal of pair screening in PiMF cables.
- All foils are removed at exactly the same length, ensuring that the distances of the four foil screens match the available space on the GG45.

- The integrated holder for the wire manager simplifies insertion of the cores. Simple handling for quick and reproducible stripping results.
- An application sheet is included. The piercing terminals are adjustable and replaceable.

### Approvals



Article number	Article designation	PU
60503	Easy Termination Tool	1 piece

Caution! The Easy Termination Tools are meant for GG45 installation. Photographs are not to scale and do not represent detailed images of the respective products.

## Patchpanel Modular fix mounting

### Product features

- 19" modular patch panel, for fixed installation
- 24 connections with integrated dust-protection caps
- Compatible with all Snap-In Connectors
- Stable metal structure
- Printed numbering system

- Dimensions: 19" - 1RU - 85 mm
- Colour: grey-white (RAL 9002)

### Approvals



Article number	Article designation	PU
60024	Patchpanel Modular fix mounting	1 piece

Delivered without snap-in connectors!

Photographs are not to scale and do not represent detailed images of the respective products.

## Patchpanel Modular extendable

### Product features

- 19" modular patch panel, extendable
- Front screen can be pulled out and swivelled at an angle of 45°, allowing simple and fast installation, as well as simple maintenance (sliding mechanism)
- 24 connections with integrated dust-protection caps
- Compatible with all Snap-In Connectors

- Stable metal structure
- Flexible label for the numbering system
- Dimensions: 19" - 1RU - 125 mm
- Colour: grey-white (RAL 9002)

### Approvals



Article number	Article designation	PU
60124	Patchpanel Modular extendable	1 piece

Delivered without snap-in connectors!

Photographs are not to scale and do not represent detailed images of the respective products.

## Patchpanel Modular Mini Surface-Mounted

### Product features

- Compatible with all Snap-In Connectors
- 12 connections with integrated dust-protection caps
- Compatible with all Snap-In Connectors
- Feed-through possibilities from the front and bottom: two pre-manufactured openings on the back and one pre-manufactured opening in the lower panel permit more flexible feed-through of the cable

- Holes for cable ties for securing the cable
- For use with desktop equipment, in false floors or in cable ducts
- Printed numbering system
- Dimensions (WxHxD): 200 x 40 x 230 mm
- Colour: grey-white (RAL 9002)

### Approvals



Article number	Article designation	PU
62112	Patchpanel Modular Mini Surface-Mounted	1 piece

Delivered without snap-in connectors!

Photographs are not to scale and do not represent detailed images of the respective products.

## Patchpanel Modular rail mounting

### Product features

- Compatible with all Snap-In Connectors
- 6 connections with integrated dust-protection caps
- Compatible with all Snap-In Connectors
- Robust powder-coated metal housing for top-hat rail and wall-mounting
- Strain relief of the cables through strain relief rail, 1 x M20, 1 x PG16 or 1 x PG11 gland

- Dimensions (WxHxD): 50 x 150 x 104 mm
- Protection rating: IP20
- Colour: black

### Approvals



Article number	Article designation	PU
60055	Patchpanel Modular rail mounting	1 piece

Delivered without snap-in connectors!

Photographs are not to scale and do not represent detailed images of the respective products.

## Outlet Snap-In front module



### Suitable Housings

- Surface-Mounted Case (84x84 mm) and coverplate Page 424

### Product features

- Kit consisting of back module with Snap-In front module
- The modular housing fits into a wide range of international 45 x 45 cover frames, cable ducts, etc.
- The Snap-In connectors are inserted into the front module using a simple click-in mechanism, and the front module is also mounted into the housing without the use of any tools.
- Compatible with all Snap-In Connectors



### Info

- Click, instead of screw-in (tool-free assembly)

- Suitable for both copper and fibre-optic modules
- 2 connectors with integrated dust-protection caps
- Angled outlet
- Colour: pure white (RAL 9010)
- Optional accessory: cover frame with integrated mounting ring

### Approvals



Article number	Article designation	PU
60622	Flush-Mounted Outlet 45 Modular	1 piece
60722	Flush-Mounted Outlet 50 Modular	1 piece

Delivered without snap-in connectors!

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Surface-Mounted Case (84x84 mm) and coverplate refer to page 424

## Surface-Mounted Case (84x84 mm) and coverplate



### Product features

- Surface-mounted housing with integrated flush-mounted cover frame
- Cover frame with integrated mounting ring (2-part)
- Used in areas where concealed installation is not possible or undesirable
- Suitable for data outlet LSA+ CAT.6 (case 50)

- Cover frame also usable for flush-mounted outlet
- Dimensions: 84 x 84 mm
- Height: 40 mm (incl. frame)
- Colour: pure white (RAL 9010)

### Approvals



Article number	Article designation	PU
<b>Surface-mounted case</b>		
60632	Surface-Mounted Case 45	1 piece
60732	Surface-Mounted Case 50	1 piece
<b>Cover frame with integrated mounting ring (2-part)</b>		
60652	Surface-Mounted Masking Frame 45	1 piece
60852	Surface-Mounted Masking Frame 50	1 piece

Photographs are not to scale and do not represent detailed images of the respective products.

## Keystone Clips for EVO SnapIn Connectors

### Product features

- Red keystone clips for LANmark EVO SnapIn with keystone format (wall thickness 1.5 - 1.75 mm)
- Suitable for EVO SnapIn Connectors
- Not suitable for GG45 connectors

### Approvals



Article number	Article designation	PU
61203	Keystone Clips for EVO SnapIn Connectors	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## Keystone Clips for SnapIn Connectors

### Product features

- Keystone clips for LANmark SnapIn with keystone format
- Suitable for GG45 Connectors
- Not suitable for EVO SnapIn Connectors

### Approvals



Article number	Article designation	PU
61201	Keystone Clips for SnapIn Connectors	24 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## SnapIn rail mount Adapter

### Product features

- Plastic housing including CAT.6 SnapIn Connector
- Suitable for use in industrial applications
- Angled outlet at 45°
- Several adapters can be connected in series
- Covers packed in pairs (right/left)
- Side cover for SnapIn rail adapter (60797)
- Colour: pure white (RAL 9010)

### Approvals



Article number	Article designation	PU
60795	SnapIn rail mount Adapter	12 pieces

Photographs are not to scale and do not represent detailed images of the respective products.

## Flush-Mounted Outlet LSA+



### ■ Suitable Housings

- Surface-Mounted Case (84x84 mm) and coverplate Page 424

### ■ Approvals



### ■ Product features

- Flush-mounted outlet 80 x 80 LSA+ CAT.6
- 2x RJ45 angled outlet
- Colour-coded in accordance with EIA/TIA 568A and B
- Suitable for cable types (AWG 22, 23 and 24)
- Colour: pure white (RAL 9010)

Article number	Article designation	PU
62722	Flush-Mounted Outlet 80x80 LSA+ CAT.6	1 piece

Photographs are not to scale and do not represent detailed images of the respective products.

## Data Binder LSA+



### ■ Product features

- A data connector allows installation cables to be easily extended and damaged cables to be replaced, without having to reinstall the entire cable network.
- A data connector allows installation cables to be easily extended and damaged cables to be replaced, without having to reinstall the entire cable network.
- Cable inlet 7.5 mm
- Screw-adjustable strain relief
- Adhesive strips for fastening

### ■ Approvals



Article number	Article designation	PU
CE6382	Data Binder LSA+ CAT.6	1 piece

Photographs are not to scale and do not represent detailed images of the respective products.

## Punch down tool LSA+



### ■ Product features

- LSA+ punch-down tool for setting the individual cores on the data outlets or patch panel.
- Cores are set properly in the terminal strip and cut off at the same time.

### ■ Approvals



Article number	Article designation	PU
CE5076	Punch down tool LSA+	1 piece

Photographs are not to scale and do not represent detailed images of the respective products.