



EPIC® DATA PN AX RJ45



Info

- For PROFINET applications
- Installation without tools



Product features

- For PROFINET applications
- 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
- Colour-coded in accordance with PROFINET for Cat.5 applications

Norm references / Approvals

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- UL-listed (E-File E353543)

Technical data

	ETIM 5.0 Class-ID: EC002641 ETIM 5.0 Class-Description: Modular connector (industrial connector)
	Protection rating IP 20
	Ambient temperature (operation) -40°C to +85°C

Article number	Article designation	Min. outer diameter (mm)	Max. outer diameter (mm)	Min. Core diameter in mm	Max. Core diameter in mm	AWG solid	AWG 7-wire
EPIC® DATA PN AX RJ45							
21700605	ED-IE-AX-5-PN-20-FC	5	9	1.6	1	24 - 22	27 - 22

Photographs are not to scale and do not represent detailed images of the respective products.
10 pieces in one blister



EPIC® DATA PN 90 RJ45



Info

- For PROFINET applications
- Installation without tools
- 4 different angled cable outlets possible



Product features

- For PROFINET applications
- Cable outlet in 4 different 90° angles possible
- Housing: zinc die-casting, grey
- Suitable for stranded cores with AWG27/7 -22/7 and for solid conductors with AWG24/1- 22/1
- Suitable for use in industrial applications
- Colour-coded in accordance with PROFINET for Cat.5 applications

Norm references / Approvals

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- UL-listed (E-File E353543)

Technical data

	ETIM 5.0 Class-ID: EC001121 ETIM 5.0 Class-Description: Modular connector
	Protection rating IP 20
	Ambient temperature (operation) -40°C to +85°C

Article number	Article designation	Min. outer diameter (mm)	Max. outer diameter (mm)	Min. Core diameter in mm	Max. Core diameter in mm	AWG solid	AWG 7-wire
EPIC® DATA PN 90 RJ45							
21700638	ED-IE-90-6-PN-20-FC	5.5	10	1	1.6	24 - 22	27 - 22

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EPIC® DATA AX RJ45 Cat.6_A



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

Norm references / Approvals

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- UL-listed (E-File E353543)



Info

- CAT.6_A qualified for 10Gbit/s
- Installation without tools

Technical data



ETIM 5.0 Class-ID: EC001121
ETIM 5.0 Class-Description:
Modular connector



Protection rating
IP 20



Ambient temperature (operation)
-40 °C to +85 °C

Article number	Article designation	Min. outer diameter (mm)	Max. outer diameter (mm)	Min. Core diameter in mm	Max. Core diameter in mm	AWG solid	AWG 7-wire	AWG 19-wire
RJ45 connector acc. to T568A								
21700600	EPIC® DATA ED-IE-AX-6 _A -A-20-FC	5	9	1	1.6	24 - 22	27 - 22	
RJ45 connector acc. to T568A, specifically for cables with 19-wire cores								
21700615	EPIC DATA ED-IE-AX-6 _A -A-20-FD-FC	5	9	0.85	1.1	26 - 24	27 - 24	26
RJ45 connector acc. to T568B								
21700601	EPIC® DATA ED-IE-AX-6 _A -B-20-FC	5	9	1	1.6	24 - 22	27 - 22	
RJ45 connector acc. to T568B, specifically for cables with 19-wire cores								
21700616	EPIC DATA ED-IE-AX-6 _A -B-20-FD-FC	5	9	0.85	1.1	26 - 24	27 - 24	26

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10 pieces in one blister

An approval is necessary for 19-wire cables by Lapp Group



EPIC® DATA RJ45F Cat.6A

RJ45 female connector



Product features

- Field assembly Industrial Ethernet module 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 AWG26/1- 22/1
- Suitable for use in industrial applications
- Available with colour code T568A or T568B

Norm references / Approvals

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- UL-listed (E-File E353543)

Technical data



ETIM 5.0 Class-ID: EC001121
ETIM 5.0 Class-Description:
Modular connector



Protection rating
IP 20



Ambient temperature (operation)
-40 °C to +70 °C

Article number	Article designation
RJ45 Modul acc. to T568A	
21700611	ED-IE-AX-RJ45F-6 _A -A-FC
RJ45 Modul acc. to T568B	
21700612	ED-IE-AX-RJ45F-6 _A -B-FC

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EPIC® DATA 90 RJ45 Cat.6_A



Info

- CAT.6_A qualified for 10Gbit/s
- Installation without tools
- 4 different angled cable outlets possible

Product features

- Cable outlet in 4 different 90° angles possible
- Qualified for 10 Gigabit Ethernet
- Housing: zinc die-casting, grey
- 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

Norm references / Approvals

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- UL-listed (E-File E353543)

Technical data

	ETIM 5.0 Class-ID: EC001121 ETIM 5.0 Class-Description: Modular connector
	Protection rating IP 20
	Ambient temperature (operation) -40°C to +85°C

Article number	Article designation	Min. outer diameter (mm)	Max. outer diameter (mm)	Min. Core diameter in mm	Max. Core diameter in mm	AWG solid	AWG 7-wire	AWG 19-wire
RJ45 connector acc. to T568A								
21700636	ED-IE-90-6 _A -A-20-FC	5.5	10	1	1.6	24 - 22	27 - 22	
RJ45 connector acc. to T568A, specifically for cables with 19-wire cores								
21700639	ED-IE-90-6 _A -A-20-FD-FC	5.5	10	0.85	1.1	26 - 24	27 - 24	26
RJ45 connector acc. to T568B								
21700637	ED-IE-90-6 _A -B-20-FC	5.5	10	1	1.6	24 - 22	27 - 22	
RJ45 connector acc. to T568B, specifically for cables with 19-wire cores								
21700640	ED-IE-90-6 _A -B-20-FD-FC	5.5	10	0.85	1.1	26 - 24	27 - 24	26

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An approval is necessary for 19-wire cables by Lapp Group



Info

- CAT.6_A qualified for 10Gbit/s
- Installation without tools

Product features

- Housing: brass nickel plated
- Qualified for 10 Gigabit Ethernet
- Suitable for stranded cores with AWG27/7 -22/7 and for solid conductors with AWG26/1-22/1
- By a multi-level relief setting the connector can accommodate a cable diameter from 5,0 mm up to 9,0 mm

Norm references / Approvals

- Field assembly Industrial Ethernet connector, RJ45 according to IEC 60603-7-51
- UL-listed (E-File E353543)

Technical data

	ETIM 5.0 Class-ID: EC002635 ETIM 5.0 Class-Description: Circular connector (industrial connector)
	Protection rating IP 68
	Ambient temperature (operation) Plug/socket -40°C to +70°C circular housing: -40°C to +85°C

Article number	Article designation
circular connector (male) inclusive RJ45 connector	
21700630	ED-IE-AX-RJ45-6 _A -B-68-FC
dust cap for RJ45 connector	
21700631	ED-IE-AX-RJ45-AC-DC
circular bulkhead housing inclusive RJ45 Modul acc. to T568B	
21700632	ED-IE-RJ45F-6 _A -B-68-FC
dust cap for RJ45 Modul	
21700633	ED-IE-RJ45F-AC-DC

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Data communication systems for ETHERNET technology



Connectors for industrial cabling • Industrial Ethernet connectors RJ45



EPIC® DATA HS RJ45F Cat.6_A

Cat.6_A rail mount adapter



Product features

- Plastic housing including Easy Connect RJ45 Modul Cat.6_A 10G
- Suitable for use in industrial applications
- Integrated strain relief for cable O.D. to 9 mm
- Colour: light grey (RAL 7035)
- Suitable for stranded cores with AWG27/7 -22/7 and for solid conductors with AWG26/1- 22/1

Norm references / Approvals

- Field assembly Industrial Ethernet module RJ45 according to IEC 60603-7-51

Technical data

	ETIM 5.0 Class-ID: EC001121 ETIM 5.0 Class-Description: Modular connector
	Protection rating IP 20
	Ambient temperature (operation) -40°C to +70°C

Article number	Article designation
Inclusive RJ45 Modul acc. to T568A	
21700613	EPIC DATA HS RJ45 F 10G A
Inclusive RJ45 Modul acc. to T568B	
21700614	EPIC DATA HS RJ45 F 10G B

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Data communication systems for ETHERNET technology



Connectors for industrial cabling • M12 Field mountable connectors and wall ducts



EPIC® DATA M12D

M12 D-coded connectors



Product features

- Field assembly Industrial Ethernet connector, M12 D-coded according to IEC 61076-2-101
- Suitable for use in industrial applications
- Robust and vibrations- resistant
- Insulation displacement contacts for conductor diameter of AWG26 - AWG22; max. outer diameter 8 mm
- Toolfree installation, small and compact design

Norm references / Approvals

- Data transmission is conform to category Cat.5 acc. to ISO 11801



Info

- CAT.5-Performance
- Installation without tools

Technical data

	Protection rating IP 67
	Ambient temperature (operation) Plug/socket -40°C to +85°C

Article number	Article designation
PROFINET/ETHERNET, 4-pin straight connector, fast-connection	
22260820	AB-C4-M12MSD-SH
PROFINET/ETHERNET, 4-pin straight socket, fast-connection	
22261016	AB-C4-M12FSD-SH

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EPIC® DATA M12X

M12 X-coded connectors

Info

- CAT.6, qualified for 10Gbit/s
- Installation without tools



Product features

- Field assembly Industrial Ethernet connector, M12 X-coded according to IEC 61076-2-109
- Qualified for 10 Gigabit Ethernet
- Suitable for use in industrial applications
- Robust and vibrations-resistant
- Housing: zinc die-casting, grey
- Insulation displacement contacts for conductor diameter of AWG27/7 - AWG22/7 and AWG24/1 - AWG22/1; max. outer diameter 9,7 mm
- Toolfree installation, small and compact design

Norm references / Approvals

- Acc. to standard IEC 61076-2-109
- Data transmission is conform to category Cat.6_A acc. to ISO/IEC 11801:2010

Technical data

ETIM ETIM 5.0 Class-ID: EC002635
ETIM 5.0 Class-Description: Circular connector (industrial connector)

IP **Protection rating**
IP 67

Ambient temperature (operation)
Plug/socket -40°C to +85°C

Article number	Article designation
M12 x-coded male connector straight	
21700602	ED-IE-AX-M12X-6 _A -67-FC
M12 x-coded female connector straight	
21700621	ED-IE-AX-M12XF-6 _A -67-FC
M12 x-coded female connector straight for wall mounting	
21700622	ED-IE-AX-M12XF-RM-6 _A -67-FC

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EPIC® DATA FT IE

Industrial Ethernet feed through



Product features

- Designs for front and rear wall-mounting
- M12 panel feed-throughs for direct connecting with PCB
- Can be used for Industrial Ethernet in harsh industrial environments
- Housing: zinc die-casting, grey

Norm references / Approvals

- Acc. to standard IEC 61076-2
- D-coded: Cat.5 acc. to ISO 11801
- X-coded: Cat.6_A acc. to ISO 11801

Technical data

ETIM ETIM 5.0 Class-ID: EC001121
ETIM 5.0 Class-Description: Modular connector

IP **Protection rating**
IP 67

Ambient temperature (operation)
-25°C to +85°C

Article number	Article designation
M12 feed through, socket on socket, D-coded	
22262022	AB-C4-DSI-M12FSD-M12FSD-M16-SH
M12 flush-type connector socket for front-mounting, X-coded	
21700617	ED-IE-M12F-X-FM
M12 flush-type connector socket for rear-mounting, solder contacts, X-coded	
21700618	ED-IE-M12F-X-RM

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Data communication systems for ETHERNET technology



Connectors for industrial cabling • Cable coupler



EPIC® DATA CCR FA

Cable coupler round



Product features

- Field mountable cable coupler for data cables up to Cat.7_A
- Compact, round design
- Qualified for 10 Gigabit Ethernet
- Suitable for use in industrial applications
- Robust and vibrations-resistant
- Housing: zinc die-casting, grey

- Insulation displacement contacts for conductor diameter of AWG24/7 - AWG22/7 and AWG24/1 - AWG22/1; max. outer diameter 9,7 mm

Norm references / Approvals

- Compliance to class F_A up to 1000 MHz in connection with Cat.7_A cables
- Data transmission is conform to category Cat.7_A acc. to ISO/IEC 11801



Info

- Cable coupler round class F_A
- Installation without tools

Technical data

	ETIM 5.0 Class-ID: EC000371 ETIM 5.0 Class-Description: Telecommunication terminal strip
	Protection rating IP 67
	Ambient temperature (operation) Plug/socket -40°C to +85°C

Article number	Article designation
EPIC® DATA CCR FA	
21700623	EPIC® DATA CCR FA

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Data communication systems for ETHERNET technology



Ethernet cable for structured building cabling • Cables for fixed installation



UNITRONIC® LAN 200 - Cat.5e

Fixed installation



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
- IEEE 802.3: 10/100/1000Base-T
- IEEE 802.5: ISDN; FDDI; ATM

Norm references / Approvals

- 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).

Technical data

	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
	Minimum bending radius during installation: 8 x outer diameter Fixed installation: 4 x outer diameter
	Characteristic impedance 100 Ohm +/- 15%
	Temperature range Operating temperature: -20°C to +60°C During installation: 0 °C to +50 °C

Product Make-up

- Solid conductor
- U/UTP: no overall or pair shielding
- F/UTP: foil screening as overall screening
- SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening
- Outer sheath either as PVC or LSZH (color grey RAL 7035)

Article number	Article designation	Number of pairs and AWG per conductor	Max. outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
PVC version					
2170125	200 U/UTP Cat.5e	4 x 2 x AWG24/1	5.6	17	33
2170126	200 F/UTP Cat.5e	4 x 2 x AWG24/1	6.4	18	39
2170128	200 SF/UTP Cat.5e	4 x 2 x AWG24/1	6.7	32	49
Halogen-free versions					
2170173	200 U/UTP Cat.5e LSZH	4 x 2 x AWG24/1	5.6	17	33
2170138	200 SF/UTP Cat.5e LSZH	4 x 2 x AWG24/1	6.7	32	49

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: 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.
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