

2170570	DATA SHEET	
Valid from: 01.12.2021	ETHERLINE® PN CABINET Cat.6_A	

Description

- PROFINET patchcords Cat.6_A, shielded
- For PROFINET application in control cabinet
- Straight RJ45-plug on straight RJ45-plug



General characteristics

Connection method, connector	RJ45-plug
Number of pins	8
Ambient temperature (operation)	-40 to +70 °C (-40°F to +158°F)
Degree of protection	IP 20
Shielding	shielded, S/FTP
Colour coding (pin assignment)	TIA/EIA-568-B
Conformity	RoHS conform REACH conform

Variation

Article	Description	Length (L*)[m]
2170570	ETHERLINE PN Cabinet Cat. 6a 0,25	0.25
2170571	ETHERLINE PN Cabinet Cat. 6a 0,5	0.5
2170572	ETHERLINE PN Cabinet Cat. 6a 1,0	1.0
2170573	ETHERLINE PN Cabinet Cat. 6a 1,5	1.5
2170574	ETHERLINE PN Cabinet Cat. 6a 2,0	2.0
2170575	ETHERLINE PN Cabinet Cat. 6a 2,5	2.5
2170576	ETHERLINE PN Cabinet Cat. 6a 3,0	3.0
2170577	ETHERLINE PN Cabinet Cat. 6a 4,0	4.0
2170578	ETHERLINE PN Cabinet Cat. 6a 5,0	5.0
2170579	ETHERLINE Cabinet Cat. 6a 10,0	10.0

Related description

ETHERLINE® PN Cabinet Cat. 6a L* (Cable length ≤5m)
ETHERLINE® Cabinet Cat. 6a L* (Cable length >5m)

Electrical properties

Operating voltage	50 V DC (max.)
Current carrying capacity	1 A (max.)

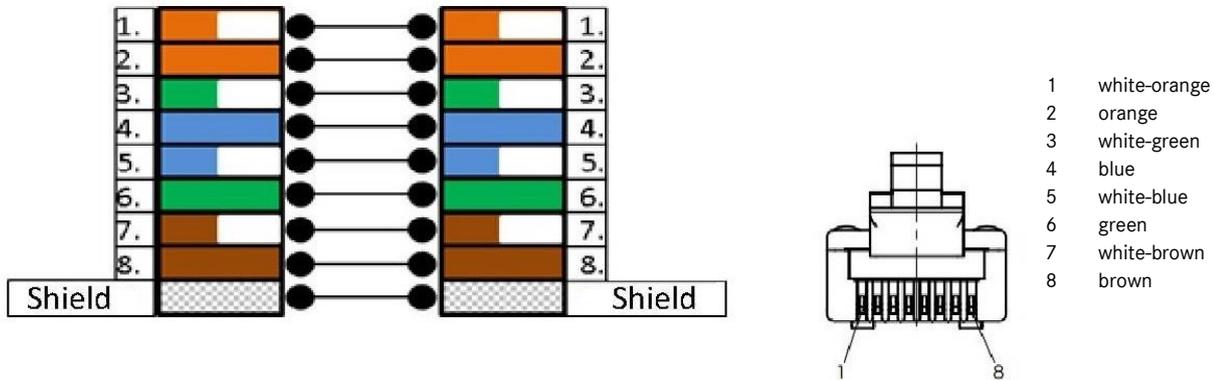
Transmission characteristics

Category (ISO 11801-1)	5 (PROFINET installation guideline) 6 _A (patchcord standard)
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Creator: FELI1/PDP Released: IVSE1/PDP	Document: DB2170570EN Version: 03	Page 1 of 3
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Connector pin assignment

Assignment 1:1 T568B



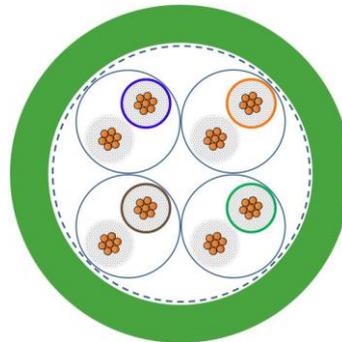
Mechanical properties

RJ45-plug

Flammability class acc. UL 94
 contact, material
 housing & insert, material
 snap-nose, material
 bend protection, material

PC → V0
 Cu, gold plated
 PC, crystal clear
 PE, in jacket color
 TPE, in jacket color

Line (Lapp Article number: 2170934)



<p>Certification</p> <p>Conductor</p> <p>Insulation, Material</p> <p>Insulation-Ø</p> <p>Pair screen</p> <p>Screen</p> <p>Outer sheath, material</p> <p>Outer sheath-Ø</p> <p>Minimum bending radius</p> <p>Flammability</p> <p>Halogen free</p> <p>UV resistance</p> <p>Oil resistance</p>	<p>E63634 cRUus AWM Style 21238 80°C 600V I/II A/B acc. to UL 758 & CSA C22.2 No.210</p> <p>4x2x26/7 AWG</p> <p>polyolefin (foamed)</p> <p>ca. 1.0 mm</p> <p>plastic laminated aluminium foil (overlapping)</p> <p>braid of tinned copper wire</p> <p>PUR, similar to RAL 6018</p> <p>ca. 6.4 mm</p> <p>fixed: 4 × outer diameter</p> <p>occasional flexing: 10 × outer diameter</p> <p>acc. IEC 60332-1-2 resp. EN 60332-1-2</p> <p>HFT acc. UL 1581 §1090</p> <p>acc. to VDE 0472-815</p> <p>acc. to ISO 4892-2, method A</p> <p>acc. to EN 50363-10-2</p>
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Standards

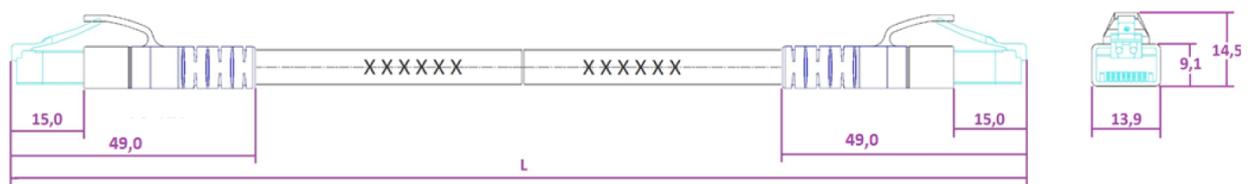
Product standard, RJ45-connector	IEC 60603-7-51
Generic cabling for customer premises – General requirements	ISO/IEC 11801-1
Application-neutral communication cable systems	PROFINET Installation Guideline

Approvals

UL wiring harness traceability	present
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Technical drawing

Dimensional drawing



Application range

Automation, industrial machinery and plant engineering, control cabinet applications in controlled environment

Note

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