

**Industrial Ethernet
IE-5TC4x2xAWG26/7-PUR**

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Bulk stock, copper cable, flexible, 4 x 2 x AWG 26/7, Cat. 5, PUR, drag-chain compatible

General ordering data

Type	IE-5TC4x2xAWG26/7-PUR
Order No.	8813210000
Version	Dragline cable, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 100 m
GTIN (EAN)	4032248513062
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	100 m	Length (inches)	3.937 inch
Net weight	5,610 g	Insulation cross-section	0.95 mm

Temperatures

Operating temperature, max.	80 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	80 °C	Storage temperature, min.	-40 °C
Operating temperature	-40 °C...80 °C	Storage temperature	-40 °C...80 °C
Installation temperature	-20 °C...60 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Electrical properties

Insulation strength	500,000 Ω	Operating voltage	100 V
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Standards

Impervious to smoke	According to IEC 61034-2	Standard, assembly	UL-Style 20963 (80°C/30V)
Standard, insulating material	DIN EN 50290-2-25 (HD 624.5)	Standard, wire material	DIN EN 13602 Cu-ETP-A
Standard, shielding material	DIN EN 13602 Cu-ETP-A..B		

Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	L19Y(ST)C11Y 4X2X0.14 VZN GN, SF/UTP
Strands	7	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm ²
Insulation cross-section	0.95 mm	Wire core insulation thickness	0.23 mm
Arrangement of wire cores	Twisted pair	Diameter of wire pair	1.9 mm
Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown	Filler	As central element, Between the individual wire pairs
Shielding	SF/UTP	Complete shielding	Plastic foil, Aluminium foil, Shielding braid made from copper wiring
Shielding braid thickness	0.1 mm	Overlap of shielding braid	90 %
Material sheath	PUR	Sheath diameter, min.	6.3 mm
Sheath diameter, max.	6.8 mm	Sheathing material thickness	0.85 mm
Sheathing colour	green (RAL 6018)		

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Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Operating voltage	100 V
Operating voltage (UL rating)	30 V undefined	Test voltage: wire-wire-shield	700 V _{rms} , 50 Hz, 1 min
Characteristic impedance	100 ± 5 Ω at 100MHz	Loop resistance	270 Ω/km
Deviation	40 ns/100m	Resistance differential	2 %
Transfer impedance	100 mΩ/m at 10 MHz	Insulation strength	500,000 Ω
Capacity at 800 Hz	50 nF/km	Signal propagation time	5.55 ns/m
Speed	180 m/min		

Mechanical and material properties of cable

Bending cycles	5 Mio	Min. bending radius, once only	4 x cable diameter
Min. bending radius, repetitive	7.5 x cable diameter	Pulling force	≤ 100 N
Speed	180 m/min	Acceleration	5 m/s ²
Torsion resistance	30 °/m	Abrasion resistance	very good
Resistance to spread of flame	in accordance with IEC 60332-1	Resistance to oils	in accordance with IEC 60811-2-1
UV-resistant	Yes	Silicone-free	Yes
Halogen	halogen-free, according to IEC 60754-2	Impervious to smoke	According to IEC 61034-2
Fire propagation	No		

Classifications

ETIM 3.0	EC001262	ETIM 4.0	EC000830
ETIM 5.0	EC000830	ETIM 6.0	EC000830
UNSPSC	26-12-16-06	eClass 5.1	27-06-18-02
eClass 6.2	27-06-18-01	eClass 7.1	27-06-18-01
eClass 8.1	27-06-03-08	eClass 9.0	27-06-18-05
eClass 9.1	27-06-90-90		

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	CAT 9 IETH 15/16 EN FL FIELDWIRING EN PI PROFINET CABLING EN
Engineering Data	WSCAD
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

Data sheet

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Drawings

Detailed drawing

