

FieldLink®

Industrial Ethernet Cat 5e with rodent protection



Design

Wire

Bare copper wire (22 AWG)
 Insulation of Polyethylene (PE)

ø 0.65 mm (0,026 in)
 ø 1.5 mm (0,059 in)

Core:

Filler as central element
 1. layer: 4 wires
 Sequence of colors: WH-YE-BU-OG
 Plastic tape, overlapped
 Inner jacket: Polyvinylchloride (PVC) (filling compound)
 Alulaminat foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires 0.13 mm dia
 Coverage about 90%

ø 3.9 mm (0.154 in)
 ø 4.5 mm (0.177 in)

Inner-Jacket:

Polyvinylchloride (PVC) GN
 Wall thickness about 0.9 mm

ø (6.5 ±0.2) mm (0,256 ±0,008 in)

Armoring: 2 Layer galvanized steel tape 12X0.1 (rodent protection)
 intercalated tapes

Jacket:

Polyethylene (PE) BK
 Wall thickness about 1.2 mm

ø (9.3 ±0.5) mm (0,366 ±0,020 in)

Printing: "sequential length in metres" LEONI L INDUSTRIAL ETHERNET OUTDOOR CABLE *
 PROFINET Type A with STEEL ARMOUR CAT 5 PLUS * 22AWG "year/internal order number"

LEONI Special Cables GmbH

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

Electrical data at 20°C

Loop resistance	≤	115	Ohm/km
Signal run time	≤	5.3	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic impedance 1 – 100 MHz		(100 ± 15)	Ohm
Surface transfer impedance 10 MHz	≤	10	mOhm/m
Operating voltage		100	V
Test voltage (wire/wire/screen rms 50Hz 1min)	=	2000	V

Near-end crosstalk attenuation

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
typ. value (dB - 100m)	80	75	70	65	63	60	55	50

Attenuation

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
typ. value (dB/100m) (dB/100ft)	1,6 (0,5)	3,2 (1,0)	5,2 (1,6)	6,9 (2,1)	7,8 (2,4)	10,5 (3,2)	15 (4,6)	19,5 (5,9)

The electrical requirements acc. to EN 50288-2-1

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3)

I-Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)

Jacket material acc. to DIN EN 50290-2-24 (VDE 0819), table 1/2-L/MD (HD 624.4)

Other characteristics:

Pulling force	: ≤ 150 N
Permissible temperature range	: - 40°C up to +70°C
During laying	: - 20°C up to +60°C
Transport temperature range	: - 40°C up to +70°C
Min. bending radius allowed	: repeated 10X \varnothing , single 5X \varnothing
Weight about	: 124 Kg/km (83 lb/1000ft)

Designation of order:

L45467-J16-B56

206345

2YY(ST)CYB2Y 2X2X0.64/1.5-100 (2B0.1VZK)

2000 m (6562 ft) on non-returnable reel