

Single Pair Ethernet

1x2x18AWG PUR

Cable Design

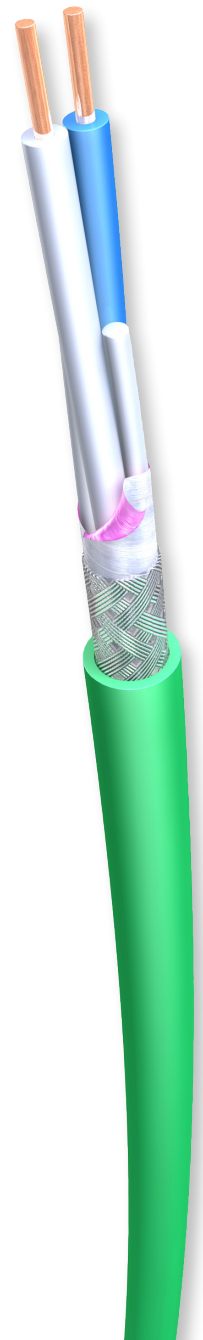
Wire

Conductor	Bare copper wire (18 AWG)	Ø 1,05 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,55 mm

Core

1° Layer	2 wires, White and Blue twisted to a pair with fillers in gaps	
Screen	Aluminum foil overlapped	
Braid	Tinned copper wire braid, 80% coverage	
Tape	Plastic tape overlapped	Ø 5,90 mm

Outer Jacket	Polyurethane (PUR) GN	Ø 7,50 ± 0,30 mm
--------------	-----------------------	------------------



Characteristics

- Flame retardant acc. to UL 1581, Sec. 1061 (Cable Flame)
- Flame retardant acc. to IEC 60332-1-2
- Halogen free
- UL-Style 21223 (80°C/600V)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-Resistant

Specification

Part Number	Type
L45467-J20-C28	Industrial Ethernet Single Pair for Trailing Applications. PUR. 1x2x18AWG1.



INDUSTRIAL
PARTNER
NETWORK

Single Pair Ethernet

1x2x18AWG PUR

Electrical Data @ 20 °C

Loop resistance	≤	23	Ohm/km
Insulation resistance	≥	5	GOhm*km
Operating Voltage (peak)	≤	100	V
Characteristic Impedance (20 MHz)		100±15	Ohm
Test Voltage (wire/wire/screen rms 50Hz min.)		700	V

Frequency (MHz)	1	4	10	16	20
Attenuation (dB/100m)	1,44	2,6	4,05	5,13	5,75
Return Loss (dB)	20	23	25	25	25

Electrical requirements acc. to. IEC 61156-13 (Draft)

Mechanical & Thermal Characteristics

Permissible temperature range	Transport and fixed installation	-40 °C up to 80 °C
Permissible temperature range	Installation and flexible use	-30 °C up to 80 °C
Min. bending radius allowed		repeated 10X Ø, single 5X Ø
Weight (approx.)		67 kg/km

Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.