

Cables Ethernet Bus cat. 5e

Application

In static application for the cabling of industrial field bus systems on base of the TCP/IP protocol.



Construction

Solid or 7-strands bare copper conductors
 Insulation on Polyethylene base respectively special Polyolefin
 Coloured cores according to Ethernet Colour chart
 Cores twisted to pairs
 Shielded by Aluminium/Polyester laminated foil tape, over it tinned copper braid screen, optical coverage 85 %
 Sheath PVC green, RAL 6018
 Sheath halogen-free, flame retardant polymer compound green RAL 6018

Technical Properties

Rated voltage U ₀ /U	250 V
Test voltage	1500 V
Characteristic impedance	100 Ω +/- 10 Ω
Loop impedance	
AWG 22/1 / AWG 22/7	max. 110 Ω/km
AWG 24/7	max. 165 Ω/km
AWG 26/7	max. 275 Ω/km
Operating capacitance	max. 48 nF/km
Temperature range	- 5°C ... + 70°C
- static installation	- 30°C ... + 70°C
Minimum bending radius	12 x cable diameter
- static	6 x cable diameter

Special Characteristics

The cables are flame retardant according to IEC 60332-1, UL approved types according to VW-1 CSA FT-1. Designated types are halogen-free according to IEC 60754-1.

Standards / Approvals

UL 2502 CSA
 (for each designated types)

Part Number	Type	n x mm ²	Overall-Ø ca. mm	Copper kg/km	Weight kg/km
- Execution PVC					
219216	DESCABUS A/C-100 Ethernet	2x2xAWG 22/1 UL 2502 80°C 30 V (Type A)	gn 6.50	35.00	61.00
219217	DESCABUS A/C-100 Ethernet	2x2xAWG 22/7 UL 2502 80°C 30 V (Type B)	gn 6.50	32.00	61.00
219196	DESCABUS A/C-100 Ethernet	2x2xAWG 24/7 UL 2502 80°C 30 V	gn 5.90	21.00	46.00
219198	DESCABUS A/C-100 Ethernet	4x2xAWG 24/7 UL 2502 80°C 30 V	gn 6.80	36.00	65.00
219200	DESCABUS A/C-100 Ethernet	2x2xAWG 26/7 UL 2502 80°C 30 V	gn 5.50	19.00	42.00
219202	DESCABUS A/C-100 Ethernet	4x2xAWG 26/7 UL 2502 80°C 30 V	gn 6.20	27.00	52.00
- Execution halogen-free					
219182	DESCABUS ECO A/C-100 Ethernet	2x2xAWG 22/1 (Type A)	gn 6.50	35.00	61.00
219183	DESCABUS ECO A/C-100 Ethernet	2x2xAWG 22/7 (Type B)	gn 6.50	32.00	61.00

gn = green

Packaging

cut to desired length