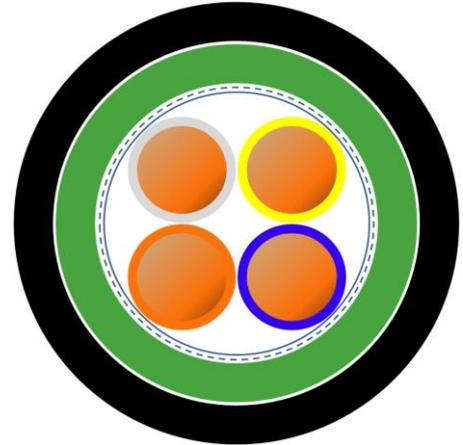


2170933	DATA SHEET	
Valid from: 26.07.2018	ETHERLINE® PN Cat.5e YY	

Description

ETHERLINE® PN Cat.5e YY is CATEGORY 5e high speed data transmission cable suitable for application in the industrial environments. This data cable meets the requirements in accordance to the Standards EIA/TIA-568 TSB-36 and ISO/IEC 11801 „Generic Cabling for Customer Premises“ for CLASS D Links. The high quality double screening ensures a high security during data transmission in areas with electromagnetic fields. The cable is designed for stationary applications in dry and wet rooms and for use outside.



Approval

c(UL)us type CMG 75°C acc. to UL 444 & CSA-C22.2 No. 214

General characteristics

Conductor	Solid bare copper wire, 0.64 mm ø or AWG 24/1
Insulation	solid polyethylene
Core identification code	White, Yellow, Blue, Orange
Stranding	Cores stranded to quad
Screening	aluminum laminated polyester foil <u>above:</u> braiding of tinned copper wires coverage approx. 85%
Inner sheath	PVC compound color: green, similar to RAL 6018 outer Ø: approx. 6.2 mm
Outer sheath	PVC compound color: black, similar to RAL 9005 outer Ø: approx. 7.7 mm

Mechanical characteristics

Minimum bending radius	fixed installation: 8 x cable Ø
Permissible temperature range	fixed installation: -25 °C up to +80 °C
Flame propagation	flame retardant acc. to UL 1685 /CSA FT4

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Electrical characteristics

DC-Resistance (loop)	max. 118.2 Ω /km
Insulation resistance	min. 5 G Ω x km
Mutual capacitance	nom. 48 nF/km
Characteristic impedance	nom. 100 Ω acc. to IEC 61156-5 100 \pm 5 Ω (@100 MHz)
Operating peak voltage	125 V (not for power purposes)
velocity of propagation	approx. 0.66 c
Test voltage	core/core: 1000 V core/screen: 500 V

Transmission properties

Transmission properties acc. to IEC 61156-5 for Category Cat.5e:

f [MHz]	Attenuation max. [dB/100m]	NEXT [dB/100m]
1*	2.1	65.3
4	4.0	56.3
10	6.3	50.3
16	8.0	47.2
20	9.0	45.8
31,25	11.4	42.9
62.5	16.5	38.4
100	21.3	35.3

* Extract of normative minimum requirements

Standard

EU-Directive	Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing.
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