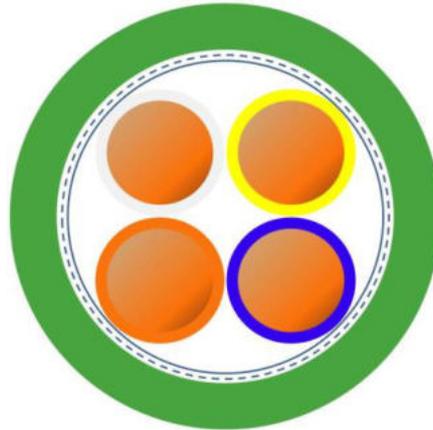


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Application

ETHERLINE® PN Cat. 5e Y 2x2x22 AWG is a CATEGORY 5e high speed data transmission cable for applications in 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 screening ensures a high security during data transmission in areas with electromagnetic fields. The cable is designed for static applications in dry and wet rooms.

Design



Certification	c(UL)us listing, type CMX 75 °C acc. to UL 444
Conductor	solid bare copper wire, ca. 0.64 mm conductor Ø (22 AWG)
Insulation	PE, core Ø ca. 1.5 mm
Core identification code	white, yellow, blue, orange
Stranding	star quad
Screen	plastic laminated aluminum foil on top: braid of copper wire, coverage ca. 85 %
Outer sheath	PVC, green (similar to RAL 6018), outer Ø ca. 6.3 mm

Electrical properties at 20°C

Conductor resistance	max. 118 Ω/km
Insulation resistance	min. 5 GΩxkm
Mutual capacitance	ca. 48 nF/km (at 800 Hz)
Velocity of propagation	ca. 0,66 c
Signal transit time	nom. 506 ns/100 m
Peak operating voltage	125 V (not for power purposes)
Test voltage	conductor/conductor 1000 V conductor/screen 1000 V

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Electrical transmission properties at 20°C

f [MHz]	Attenuation [dB/100m] standard	NEXT [dB] standard	EL FEXT [dB] standard	Return Loss [dB] standard
4	4,1	56,3	52	23
10	6,7	50	43,3	25
16	8,3	47,2	40	25
31,25	11,7	42,8	34	23,6
62,5	17	38,4	28,1	21,6
100	22	35,3	24	20,1

Mechanical and thermal properties

Minimum bending radius	7,5 x cable Ø
Temperature range	at installation: -5° C up to +50° C fixed installation: -40° C up to +70° C
Flammability	acc. to IEC 60332-1-2 and VW-1 acc. to UL 1581
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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