
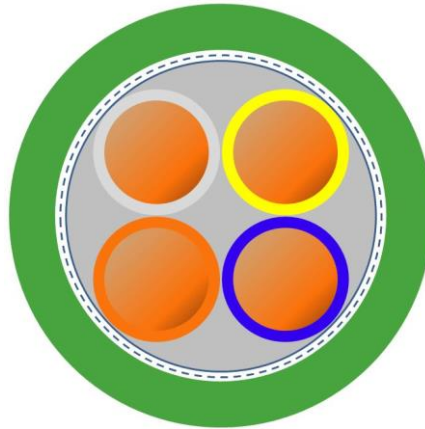


2170879	<b>DATA SHEET</b>	
valid from: 12.11.2019	<b>ETHERLINE® TRAY ER PN Y FC</b>	

## Application

ETHERLINE® TRAY ER PN Y FC Cat.5 is a CATEGORY 5 high speed data cable for industrial usage. The screening ensures high transmission reliability in areas with a high load of electromagnetic capacity. The cable is sunlight resistant and flame retardant.

## Design




Certification	(UL) PLTC-ER, c(UL)us CMG 75 °C, UL AWM Style 20201
Conductor	bare copper-wire ca. 0.64 mm $\varnothing$ (22 AWG)
Insulation	PE, ca. 1.5 mm outer diameter
Core identification code	white, yellow, blue, orange
Stranding	star quad (optional with central filler), plastic tape (overlapping)
Inner sheath	PVC
Screen	plastic laminated aluminum foil (overlapping) on top: braid of copper wire tinned wire, coverage ca. 85 %
Outer sheath	PVC, green similar to RAL 6018, wall thickness ca. 0.9 mm, outer diameter: ca. 6.5 mm

## Electrical properties at 20°C

Conductor resistance	max. 115 $\Omega$ /km
Insulation resistance	min. 500 M $\Omega$ xkm
Characteristic impedance	1 bis 100 MHz 100 $\Omega$ $\pm$ 15 $\Omega$
Signal transit time	<5,3 ns/m
Rated voltage	UL: 600 V
Test voltage	conductor/conductor 2000 V conductor/screen 2000 V

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### Electrical transmission properties at 20°C

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

### Mechanical and thermal properties

Minimum bending radius	during laying: 15 x cable diameter fixed installation: 10 x cable diameter
Temperature range	during laying: -20 °C up to +60 °C fixed installation: -40 °C up to +80 °C
Flammability	flame retardant acc. to UL 1685 (CSA FT 4)
UV resistance	sunlight resistant acc. to UL 1581 Sec. 1200
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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