
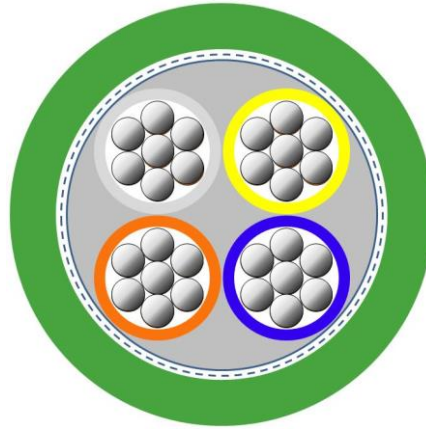


2170886	<b>DATA SHEET</b>	
valid from: 01.01.2019	<b>ETHERLINE® PN Cat.5 Y FLEX FC</b>	

### Application

ETHERLINE® PN Cat. 5 Y FLEX FC is a flexible CATEGORY 5 high speed data cable. The high quality screening ensures high transmission reliability in areas with a high load of electromagnetic capacity. The cable is sunlight resistant and flame re-tardant.

### Design




Certification	(UL) PLTC, c(UL)us CMG 75 °C, UL AWM Style 21694
Conductor	tinned copper, fine-wire stranded ca. 0.75 mm conductor $\varnothing$ (22/7 AWG)
Insulation	PE compound, ca. 1.5 mm outer $\varnothing$
Core identification code	acc. to IEC 60708-1: white, yellow, blue, orange
Stranding	star quad (optional with central filler) with plastic tape
Inner sheath	PVC
Screen	plastic laminated aluminum foil (overlapping) on top: braid of copper wire, tinned wire, coverage ca. 85 %
Outer sheath	PVC compound, Green similar green RAL 6018, outer $\varnothing$ : ca. 6.5 mm

### Electrical properties at 20°C

Loop resistance	max. 120 $\Omega$ /km
Insulation resistance	min. 500 M $\Omega$ xkm
Characteristic impedance	100 $\Omega$ $\pm$ 15 $\Omega$ (1MHz up to 100 MHz)
Signal transit time	<5,3 ns/m
Peak operating voltage	125 V
Rated voltage	600 V acc. to UL
Test voltage	conductor/conductor 2000 V conductor/screen 2000 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
<b>1</b>		52	64	64
<b>4</b>	4	44,3	52	52
<b>10</b>	6,4	39,8	44	44
<b>16</b>	8,1	37,6	39,9	39,9
<b>31,25</b>	11,4	34,6	34,1	34,1
<b>62,5</b>	16,5	31,5	28,1	28,1
<b>100</b>	21,4	29,4	24	24

### Mechanical and thermal properties

Minimum bending radius	moved: 7 x cable Ø fixed installation: 3 x cable Ø
Temperature range	moved: -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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