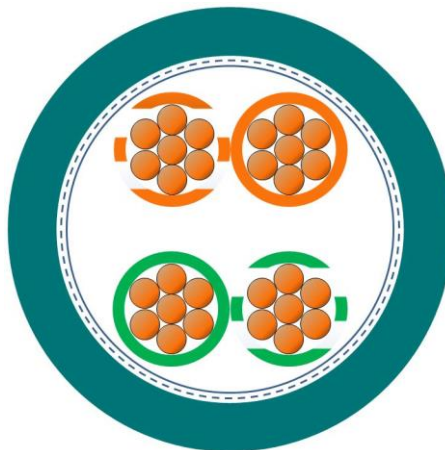


2170284	DATA SHEET	
valid from: 01.01.2019	ETHERLINE® P FLEX Cat. 5e 2x2x26/7AWG	

Application

ETHERLINE® P FLEX Cat. 5e 2x2x26/7 AWG is a CATEGORY 5e high speed data transmission cable for industrial environments. This data cable meets the requirements of Standards EIA/TIA-568, TSB-36 and ISO/IEC 11801 „Generic Cabling for Customer Premises“ for CLASS D Links. The high quality screen ensures high transmission reliability of data transfer in electromagnetically polluted areas. The PUR sheath is widely resistant against mineral oils and abrasion. The cable is intended for fixed installation and flexible (non continuous) applications in dry and damp interiors and outdoors.

Design



Certification	UL AWM styles 11117 and 21576 (1000 V, 80 °C) acc. to UL 758 cRU AWM I/II A/B (FT2) acc. to CSA C22.2 No.210-05
Conductor	bare copper, fine-wire stranded (7 x ca. 0.16 mm; 26/7 AWG)
Insulation	foam-skin polyolefin, core Ø ca. 0.95 mm
Core identification code	acc. to IEC 60708-1 pair 1: white(-orange)/orange; pair 2: white(-green)/green
Stranding	cores twisted to pairs, pairs stranded together, 1 layer non-woven tape
Screen	plastic laminated aluminum foil on top: braid of tinned copper wire, coverage ca. 85 %
Outer sheath	PUR halogen free compound, blue (similar to RAL 5021), outer Ø: ca. 5.6 mm

Electrical properties at 20°C

Loop resistance	max. 284 Ω/km
Specific volume resistivity	min. 5 GΩ x km
Mutual capacitance	nom. 48 nF/km (bei 800 Hz)
Characteristic impedance	100 Ω ± 15 Ω (1 MHz bis 100 MHz)
Velocity of propagation	ca. 0,77 c
Signal transit time	<433 ns/100 m
Peak operating voltage	125 V (not for power purposes)
Test voltage	conductor/conductor 1000 V conductor/screen 500 V

Creator: TOST / PDC	Document: DB2170284EN	Page 1 of 2
Released: ALTE / PDC	Version: 08	

2170284	DATA SHEET	
valid from: 01.01.2019	ETHERLINE® P FLEX Cat. 5e 2x2x26/7AWG	

Electrical transmission properties at 20°C

f [MHz]	Attenuation [dB/100m] standard	NEXT [dB] standard	EL FEXT [dB] standard	Return Loss [dB] standard
4	6	56,3	52	23
10	9,5	50,6	43,6	25
16	12,1	47,2	39,8	25
31,25	17,1	42,9	34,1	23,3
62,5	24,8	38,4	28,1	20,8
100	32	35,3	24,0	19

Mechanical and thermal properties

Minimum bending radius	moved: 15 x cable Ø fixed installation: 8 x cable Ø
Temperature range	moved (VDE): -5° C up to +50° C fixed installation (VDE): -40° C up to +80° C moved (UL): -5° C up to +80° C fixed installation (UL): -40° C up to +80° C
Flammability	acc. to IEC 60332-1-2
Halogen free	acc. to VDE 0472-815
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

Creator: TOST / PDC	Document: DB2170284EN	Page 2 of 2
Released: ALTE / PDC	Version: 08	