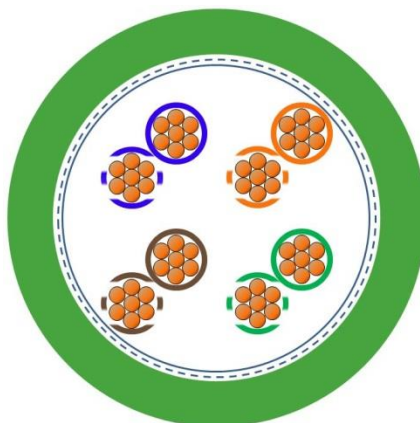


2170486	DATA SHEET	
valid from: 01.01.2019	ETHERLINE® Y Flex CAT.5e 4 x 2 x AWG26/7	

Application

ETHERLINE® Y FLEX Cat.5e 4 x 2 x AWG26/7 is a CATEGORY 5e high speed data transmission cable suitable for application in the industrial environments. This data cable meets the requirements of standards EIA/TIA-568, TSB-36 and ISO/IEC IS 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.

Design



Certification	c(UL) Listing Type CMG 75°C acc. to UL444
Conductor	stranded bare copper wires, AWG26/7 or 0,14 mm ²
Insulation	foam-skin polyolefin, outer Ø approx. 0.9 mm
Core identification code	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Stranding	2 cores twisted to pairs 4 pairs twisted together above: common wrapping with non-woven tape
Screen	plastic laminated aluminum foil on top: braid of tinned copper wire, coverage 85 % ± 5 %
Outer sheath	PVC compound, Colour: green similar RAL 6018, outer Ø: approx. 6.2 mm

Electrical properties at 20°C

Loop resistance	max. 280 Ω/km
Insulation resistance	min. 5 GΩxkm
Mutual capacitance	nom. 48 nF/km
Characteristic impedance	100 Ω (±15%) at 100 MHz
Peak operating voltage	125 V
Test voltage	conductor/conductor 2000 V conductor/screen 2000 V

Creator: TOST / PDC	Document: DB2170486EN	Page 1 of 2
Released: ALTE / PDC	Version: 03	

2170486	DATA SHEET	
valid from: 01.01.2019	ETHERLINE® Y Flex CAT.5e 4 x 2 x AWG26/7	

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: -10° C up to +70° C fixed installation: -40° C up to +80° C

Flammability	acc. to IEC 60332-3-24, UL 1685 (CSA FT4)
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UV resistance	SUN RES in acc. with UL1581
Oil resistance	OIL RES I in acc. with UL1581

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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Creator: TOST / PDC	Document: DB2170486EN	Page 2 of 2
Released: ALTE / PDC	Version: 03	