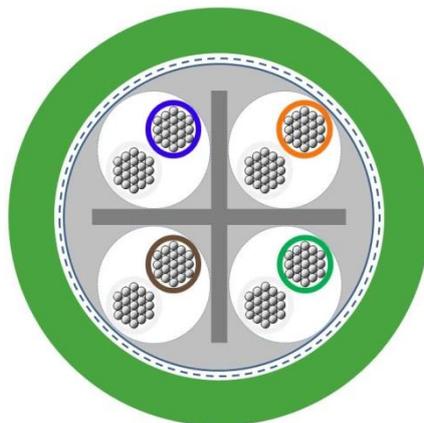


2170488	DATA SHEET	
valid from: 01.01.2019	ETHERLINE® FD P CAT.6 4x2xAWG26	

Application

ETHERLINE® FD P Cat.6 4 x 2 x AWG 26/19 is a halogen free CATEGORY 6 high speed data transmission cable. 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 double screening ensures a high security during data transmission in areas with electromagnetic fields. The PUR outer sheath is largely robust against mineral oils, fat, abrasion and atmospherical UV radiation. The cable is designed for use in drag chains and permanent moved machine parts in dry and wet rooms.

Design



Certification	c(UL)us Typ CMX acc. to UL 444 (File number: E224252)
Conductor	Stranded tinned copper wire AWG 26/19, conductor Ø ca. 0.55 mm
Insulation	Polypropylene (PP) Core Ø ca. 0.98 mm
Core identification code	according to IEC 60708-1 a-core b-core pair 1: white blue pair 2: white orange pair 3: white green pai 4: white brown
Stranding	2 wires twisted to a pair
Inner sheath	Thermoplastic Copolymer FRNC halogen-free and flame-retardant compound Outer Ø 5.7 mm
Screen	Aluminum laminated foil (overlapped) Shield braiding of tinned copper wires Coverage about 85 ± 5 % with plastic tape, overlapped Ø above copper braiding ca. 6.3 mm
Outer sheath	PUR halogen-free and flame-retardant compound Color: green, similar RAL 6018 Outer Ø ca. 7.8 mm

Electrical properties at 20°C

Loop resistance	max. 28 Ω/100m
Insulation resistance	min. 0,5 GΩ x km
Mutual capacitance	800 Hz nom. nF/km 52
Characteristic impedance	1 up to 100 MHz Ω 100 ± 15
Velocity of propagation	ca. 0.67 c
Signal transit time	Max. ns/100m 5,34
Transfer impedance	10 MHz max. 30 mΩ/m

Creator: TOST / PDC	Document: DB2170488EN	Page 1 of 2
Released: ALTE / PDC	Version: 03	

2170488	DATA SHEET	
valid from: 01.01.2019	ETHERLINE® FD P CAT.6 4x2xAWG26	

Peak operating voltage (peak) 100 V
Test voltage conductor/conductor 700 V
conductor/screen 700 V

Mechanical and thermal properties

Minimum bending radius stationary mm 4xØ
flexing mm 7,5x Ø

Temperature range stationary °C - 40 bis + 80 flexing °C - 30 bis + 70

Number of cycles 4 Mio. bending cycles,
velocity 3 m/s
acceleration 3 m/s²

Flammability acc. to IEC 60332-1-2
acc. to UL 1581 VW-1 und CSA FT1

Oil resistance acc. to CSA 22.2, 4 Days/100°C

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: DB2170488EN	Page 2 of 2
Released: ALTE / PDC	Version: 03	