

Suggested Copy for Lapp Limited in Farnell Catalogue

Etherline® FD P CAT. 5 4x2x26AWG

(Farnell: Etherline FD P CAT. 5 4x2x26AWG)

Application

ETHERLINE® FD P CAT. 5 4 x 2 x AWG 26/19 is a CATEGORY 5 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 11801 "Generic Cabling for Customer Premises" for CLASS D Links. The cable is intended for highly flexible application in power chains or permanently moving machines and linear robots in dry and damp interiors and in harsh industrial environment. The PUR sheath is very resistant against mineral oils and abrasion..

Design

Conductor	bare copper wire, 0.14 mm ² (19x 0.10), (26AWG)
Insulation	foam-skin, core diameter max. 1.0 mm
Stranding	2 cores twisted to pairs, stranding from 4 pairs
Colour coding	pair 1: white/blue and blue pair 2: white/orange and orange pair 3: white/green and green pair 4: white/brown and brown
Inner sheath	halogen free compound of TPE
Screening	braid of tinned copper wires, coverage 85 %
Sheath	PUR, halogen free, flame retardant, water blue similar to RAL 5021
Outer diameter	6.3 mm

Electrical properties at 20 ° C

DC resistance (loop)		maxΩ/km	284
Insulation resistance		min. GΩxkm	5
Mutual capacitance at	800 Hz	nom. nF/km	48
Impedance at	1 -100 MHz	Ω	100 ±15
Velocity of propagation		nom. %	71
Propagation delay at		max. nsec/m	5.2
Delay skew at	100 MHz	max. ns/100m	40
Transfer impedance at	20 MHz	max. MΩ/m	10
Operating voltage (not for power purposes)		peak value V	125
Test voltage	core/core	Urms V	1000
	core/screen	Urms V	500

Mechanical and thermal characteristics

Minimum bending radius	flexible	mm	95
Permissible temperature range	flexible	°C	-5 to 50
	static	°C	-40 to 70
Flame propagation	flame retardant acc. to IEC 60332-1		

General properties

All materials used for the cable and during manufacturing are free of LBS. (e.g. silicone).

LBS = substances destructive to lacquer-coatings.