

## Suggested Copy for Lapp Limited in Farnell Catalogue

### UNITRONIC® EtherLine® FD P CAT. 5 2 x 2 x 26AWG

**(Farnell: Unitronic Etherline CAT 5e Highly Flexible Power Chain Cable)**

#### Application

UNITRONIC® EtherLine® FD P CAT. 5 2 x 2 x AWG 26/19 is a halogen free 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 <sup>2</sup> (19x 0.10), (26AWG)
Insulation	Foam-Skin, core diameter max. 1.0 mm (compatible to RJ 45)
Stranding	cores twisted to pairs tapping of the pairs 2 pairs twisted to the cable core
Colour coding pair	1:white/orange -orange pair 2.white/green -green
Screening	1 layer of aluminium laminated plastic foil 1 layer of metallized tape braid of tinned copper wires, coverage 85 % ± 5 1 layer of metallized tape
Sheath	PUR, halogen free, flame retardant, water blue RAL 5021
Outer diameter	5.8 mm

#### Electrical properties at 20° C

DC resistance (loop)		maxΩ/km	284
Insulation resistance		min. G.Ω.xkm	5
Mutual capacitance	at 800 Hz	nom. nF/km	48
Impedance	at 1 -100 MHz	Ω	100 ± 15
Velocity of propagation		nom. %	77
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	87
Permissible temperature range	flexible	°C	-5 to 50
	static	°C	-40 to 70
Flame propagation	flame retardant acc. to VDE 0482, part 265-2-1/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.