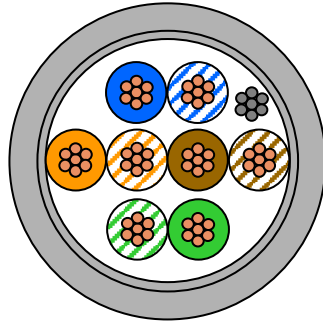


Farnell S26 Cat.5e PVC

F/UTP Patch Cable



Application

Work area and patch cord cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-2-2
ISO/IEC 11801; IEC 61156-6
TIA/EIA-568-B.2

Flame resistance

PVC: IEC 60332-1

Construction

| | | |
|--------------|---|--|
| Conductor | stranded bare copper wire \varnothing 0.48 mm (AWG 26) | |
| Insulation | Polyethylene, \varnothing 0.95 mm | |
| Twisting | 2 cores to the pair | |
| Cable lay up | 4 pairs to the core | |
| Screen | Al-laminated plastic foil, stranded drain wire AWG26 tinned | |
| Sheath | PVC | |

Mechanical properties

| | | |
|-------------------|---------------------|-----------------|
| Bending radius | without load | ≥ 20 mm |
| | with load | ≥ 40 mm |
| Temperature range | during operation | -20°C to + 60°C |
| | during installation | 0°C to + 50°C |

Farnell S26 Cat.5e PVC

Electrical properties

at 20°C ± 5°C

| | | |
|---------------------------------|---------------|---------------|
| Loop resistance | | ≤ 260 Ω/km |
| Resistance unbalance | | ≤ 3% |
| Insulation resistance | (500 V) | ≥ 2000 MΩ*km |
| Mutual capacitance | at 800 Hz | Nom. 48 nF/km |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km |
| Mean impedance | 100 MHz | 100 ± 5 Ω |
| Nominal velocity of propagation | | Ca. 67 % |
| Propagation delay | | ≤ 535 ns/100m |
| Delay skew | | ≤ 20 ns/100m |
| Test voltage | | 1000 V |
| Transfer impedance | at 1 MHz | ≤ 50 mΩ/m |
| | at 10 MHz | ≤ 100 mΩ/m |
| | at 30 MHz | ≤ 200 mΩ/m |
| Coupling attenuation | | ≥ 55 dB |

Electrical data (nominal)

acc. to Cat.5e (at 20°C)

| F (MHZ) | Attenuation (dB/10m) | NEXT (dB) | PS-NEXT (dB) | ELFEXT (dB/100m) | PS-ELFEXT (dB/100m) | Return loss (dB) |
|---------|----------------------|-----------|--------------|------------------|---------------------|------------------|
| 1.0 | 0.3 | 71 | 68 | 68 | 65 | 23 |
| 4.0 | 0.6 | 62 | 59 | 56 | 53 | 23 |
| 10.0 | 0.9 | 56 | 53 | 48 | 45 | 23 |
| 16.0 | 1.1 | 53 | 50 | 44 | 41 | 23 |
| 20.0 | 1.3 | 51 | 48 | 42 | 39 | 23 |
| 31.2 | 1.6 | 49 | 46 | 38 | 35 | 23 |
| 62.5 | 2.4 | 44 | 41 | 32 | 29 | 23 |
| 100.0 | 3.0 | 41 | 38 | 28 | 25 | 23 |
| 125.0 | 3.3 | 40 | 37 | 26 | 23 | 23 |
| 155.5 | 3.6 | 38 | 35 | 24 | 21 | 23 |
| 175.0 | 3.9 | 37 | 34 | 23 | 20 | |
| 200.0 | 4.1 | 36 | 33 | 22 | 19 | |
| 250.0 | 4.4 | 35 | 32 | 20 | 17 | |
| 300.0 | 4.8 | 34 | 31 | 16 | 13 | |

Farnell S26 Cat.5e PVC

Product order data

| Product code | Cable type | Brand name | Colour | Outer diameter mm | Fire load | | Weight kg/km | Tensile force N |
|--------------|----------------------|--------------------------|-----------|----------------------|-----------|-------|-----------------|--------------------|
| | | | | | MJ/km | kWh/m | | |
| 60018045 | Li-2Y(St)Y 4x2x0.48L | Farnell S26 4P Patch PVC | grey 7035 | 5.4 | 354 | 0.099 | 26 | 55 |

[PRODUCT CODE TABLE]

© PRYSMIAN GROUP 2009, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.