

## e-ssential FTP CAT5e 0,5MM PVC BOX 305M

- FTP single foil construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz

Nexans ref.: N100.461

### Description

#### Application

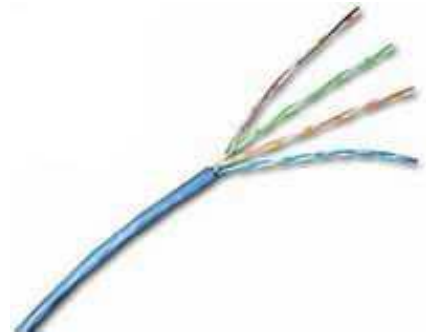
Category 5e cables are the standard 100MHz offering from Nexans. Manufactured in accordance with TIA 568-B and IEC 61156-5, they are suitable for basic installations. Available in Light Grey PVC or Orange LSZH.

#### Performance

Nexans Category 5e cables are compliant with the requirements of the TIA 568-B and IEC 61156-5. ACR figures are shown for comparative purposes between different Nexans products. Actual performance is shown overleaf.

#### Values

|                                     |    |
|-------------------------------------|----|
| Skew (ns/100m)                      | 45 |
| Coupling attenuation at 30 MHz (dB) | 45 |



e-ssential


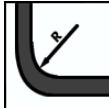
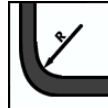
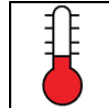


### Standards

**International** ISO/IEC 11801

**National** TIA/EIA-568-B.2

### Contact

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Operating temperature, range  | Minimum dynamic operating bending radius  | Minimum static operating bending radius   | Ambient installation temperature, range   | Electro magnetic interference resistance  | Flame retardant   |
| -20 .. 60 °C  | 24.0 mm   | 48.0 mm   | 0 .. 50 °C  | Yes   | IEC 60332-1   |

Made for Andrew Garfield

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## Characteristics

### Construction characteristics

|               |                |
|---------------|----------------|
| Type of cable | FTP            |
| Outer sheath  | PVC            |
| Colour        | Grey           |
| Screen        | Aluminium foil |

### Dimensional characteristics

|                          |          |
|--------------------------|----------|
| Conductor diameter       | 0.52 mm  |
| Diameter over insulation | 1.06 mm  |
| Nominal outer diameter   | 5.9 mm   |
| Approximate weight       | 42 kg/km |

### Electrical characteristics

|                          |         |
|--------------------------|---------|
| Characteristic impedance | 100 Ohm |
|--------------------------|---------|

### Transmission characteristics

|                                 |             |
|---------------------------------|-------------|
| Velocity of propagation         | 68.0 %      |
| Propagation delay, max. 100 MHz | 536 ns/100m |

### Usage characteristics

|  |              |
|--|--------------|
| Category                                 | Cat. 5e      |
| Range                                    | E-ssential   |
| Component function                       | Cable        |
| Operating temperature, range             | -20 .. 60 °C |
| Minimum dynamic operating bending radius | 24.0 mm      |
| Minimum static operating bending radius  | 48.0 mm      |
| Length                                   | 305 m        |
| Fire load                                | 550 MJ/km    |
| Ambient installation temperature, range  | 0 .. 50 °C   |
| Electro magnetic interference resistance | Yes          |
| Flame retardant                          | IEC 60332-1  |
| Packaging                                | Box          |