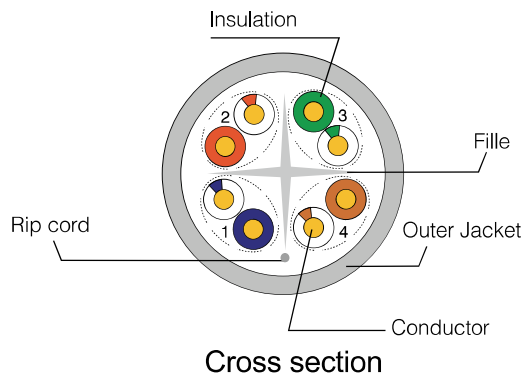


## PRODUCT SCHEMATIC DIAGRAM



## PRODUCT SCHEMATIC DIAGRAM



|                               |   |
|-------------------------------|---|
| LSZH Sheath                   | IEC 60754-2, IEC 61034-2, IEC 60332-1-2, EN 50575, EN 50399, Reaction to fire Dca |
| PVC Sheath                    | IEC 60754-2, IEC 61034-2, IEC 60332-1-2, Reaction to fire Eca                     |
| PE Sheath                     | Fca   |
| Applicable Standards          | ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50173-2, EN 50288-10-1                 |
| Conductor Type and Size       | Bare copper wire 23 AWG   |
| Insulation                    | Polyethylene  |
| Wire Diameter with Insulation | 0.96±0.02 mm  |
| Cable Diameter                | 5.8±0.2 mm (LSZH)<br>5.9±0.2 mm (PVC)<br>5.7±0.2 mm (PE)                          |
| Weight                        | 35 kg/km (LSZH)<br>36 kg/km (PVC)<br>32 kg/km (PE)                                |
| Colour                        | RAL 4005 (LSZH)<br>RAL 7004 (PVC)<br>RAL 9005 (PE)                                |
| NVP                           | 69 %  |
| Propagation delay             | 570 ns/100 m  |
| Delay skew                    | ≤45 ns/100 m  |
| Storage/Operation Temperature | -30 to 90 °C (LSZH, LSZHFR),<br>-20 to 75 °C (PVC)<br>-30 to 60 °C (PE)           |
| Installation Temperature      | 0 to +50 °C   |

**1 Gbps**

**250 MHz**

**FORCE**

## COMPLIANCE WITH THE REQUIREMENTS

- ANSI/TIA 568-C.2
- EN 50173-1:2002
- ISO/IEC 11801:2002
- IEC 60332-1-2:2004+A1:2015
- IEC 61156-5
- IEC 60754-2:2011
- EN50399:2011+A1:2016
- IEC 61034-2:2005+A1:2013
- EN50575:2014+A1:2016

## APPLICATION

- PBX, V.11, X.21, ISDN
- Fast Ethernet (100BASE-TX)
- Gigabit Ethernet (1000BASE-T)
- (1GBASE-T), ATMLAN 1,2 Gbit/s
- 1 Gigabit Ethernet
- ATM-25/52/155 Mbit/s
- Token Ring 16/100 Mbit/s
- 100VG-AnyLAN
- Firewire 100 Mbit/s
- Ethernet (1Base-T)

| Part No.                | Description   |
|-------------------------|---|
| ■ 7999076D              | Installation Cable Category 6 23AWG U/UTP SOL CABLE LSZH 305M Dca       |
| ■ 7999061 ■ 7999061/500 | Installation Cable Category 6 23AWG U/UTP SOL CABLE PVC 305M/500M Eca   |
| ■ 7999075               | Installation Cable Category 6 Outdoor 23AWG U/UTP SOL CABLE PE 500M Fca |

## Category 6 Installation Cables Transmission Characteristics (at 20°C)

| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | PSNEXT (dB) | Prop. Delay (ns/100m) | ACR-F (dB/100m) | PSACR-F (dB/100m) | Return Loss (dB) |
|---------|-----------------------|-----------|-------------|-----------------------|-----------------|-------------------|------------------|
| 1       | 2,0                   | 74,3      | 72,3        | 570                   | 67,8            | 64,8              | 20,0             |
| 4       | 3,8                   | 65,3      | 63,3        | 552                   | 55,8            | 52,8              | 23,0             |
| 8       | 5,3                   | 60,8      | 58,8        | 546,7                 | 49,7            | 46,7              | 24,5             |
| 10      | 6,0                   | 59,3      | 57,3        | 545,4                 | 47,8            | 44,8              | 25,0             |
| 16      | 7,6                   | 56,2      | 54,2        | 543                   | 43,7            | 40,7              | 25,0             |
| 20      | 8,5                   | 54,8      | 52,8        | 542                   | 41,8            | 38,8              | 25,0             |
| 25      | 9,5                   | 53,3      | 51,3        | 541,2                 | 39,8            | 36,8              | 24,2             |
| 31,25   | 10,7                  | 51,9      | 49,9        | 540,4                 | 37,9            | 34,9              | 23,3             |
| 62,5    | 15,4                  | 47,4      | 45,4        | 538,6                 | 31,9            | 28,9              | 20,7             |
| 100     | 19,8                  | 44,3      | 42,3        | 537,6                 | 27,8            | 24,8              | 19               |
| 200     | 29,0                  | 39,8      | 37,8        | 536,5                 | 21,8            | 18,8              | 16,4             |
| 250     | 32,8                  | 38,3      | 36,3        | 536,3                 | 19,8            | 16,8              | 15,6             |



7999076D



7999061/305/500



7999075

