

# 7475WB *Cat.7 S/FTP <1000 MHz> LSZH*

## With Waterblocking Tape

### Application

IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T, IEEE 802.5 16 MB, ISDN, TPDDI, ATM Power over Ethernet (PoE) / PoE+. These cables are used in data communication networks with 1000 MHz bandwidth capacity where the use of water blocking tape is required.

### Cable Design

|                     |  |
|---------------------|--|
| Conductor           | Bare copper wire (23awg)   |
| Core Insulation     | Skin/Foam/Skin PE Insulation                                       |
| Core Identification | wh-bu, wh-or, wh-gn, wh-bn   |
| Core Stranding      | cores twisted to pairs   |
| Pair Screen         | Individual Aluminium/polyester tape                                |
| Cable lay up        | 4 shielded pairs cabled together                                   |
| Overall Screen      | Tinned copper wire braid   |
| Tape                | Water Blocking Swellable tape                                      |
| Sheath              | LSZH FireFighter® UV Resistant acc. ISO 4892-3-1. Ø 7,50 ± 0.20 mm |

### Standards

|                      |   |
|----------------------|---|
| Industrial Standards | EIA/TIA-568-C.2, IEC 61156-5, EN 50173-1, EN 50288-4-1, ISO/IEC 11801 Class F |
| Flammability Rating  | IEC 60332-1 ; IEC 60332-3-24 ; IEC 60754-2 ; IEC 61034                        |

### Specification

| Part Number | Type                                   |
|-------------|--|
| 7475WB      | Cat7 S/FTP 4x2xAWG23/1 <1000 MHz> LSZH |



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## Thermal & Mechanical Characteristics

|   |                   |
|---|-------------------|
| Cable Weight approx.                      | 63 kg/km          |
| Min. Bending radius during installation   | 60 mm             |
| Min. Bending radius permanently installed | 30 mm             |
| Max. Tensile Strength                     | 95 N              |
| Min. Crush Resistance                     | 1000 N/10 cm      |
| Min. Impact                               | 10 Impacts        |
| Installation Temperature                  | 0°C ... +50°C     |
| Operating Temperature                     | -20°C ... +70°C   |
| UV Resistant                              | acc. ISO 4892-3-1 |

## Electrical Data @ 20°C

|                              |               |
|------------------------------|---------------|
| Max. Conductor Resistance    | < 9.5 Ω / km  |
| Max. Resistance Unbalance    | < 2 %         |
| Min. Insulation Resistance   | 5000 MΩ x m   |
| Mutual Capacitance           | 56 pF / m     |
| Impedance at 100 MHz         | 100 ± 5 Ω     |
| Velocity of Propagation      | 76 %          |
| Delay Skew                   | 25 ns / 100 m |
| Transfer Impedance at 1 MHz  | < 10 mΩ/km    |
| Transfer Impedance at 10 MHz | < 10 mΩ/km    |
| Transfer Impedance at 30 MHz | < 30 mΩ/km    |
| Segregation Class            | D             |
| Test Voltage                 | 1000 V        |
| Operating Voltage            | 125 V         |

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## Electrical Characteristics

| Frequency (MHz) | Attenuation (dB/100m) | NEXT (dB) | ACR (dB/100m) | EL-FEXT (dB/100m) | Return Loss (dB) |
|-----------------|-----------------------|-----------|---------------|-------------------|------------------|
| 1               | 2,0                   | 104       | 99            | 95                | 24               |
| 4               | 4,0                   | 104       | 97            | 93                | 30               |
| 10              | 4,9                   | 101       | 95            | 92                | 32               |
| 100             | 17,3                  | 100       | 83            | 77                | 34               |
| 250             | 28,2                  | 95        | 63            | 70                | 27               |
| 500             | 42,0                  | 95        | 56            | 62                | 24               |
| 600             | 44,0                  | 88        | 45            | 60                | 22               |
| 800             | 55,5                  | 83        | 28            | 56                | 20               |
| 900             | 57,3                  | 80        | 23            | 53                | 18               |
| 1000            | 59,1                  | 77        | 23            | 50                | 18               |

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