



J-V(ZN)HH 2F ORG

CONSTRUCTION

- Sub-unit** : Simplex cable with buffered fibre
- Fibre (uncoloured)** : SM 9/125; MM 50/125; MM 62,5/125
- Buffer** : tight (34T1) - stripability up to 10 cm
semi-tight (34S1) - stripability 20 to 100 cm
- Material : LSZH
- Colour code : 1st: natural, 2nd: blue
Other buffer colours available on request.
- Strength member** : Aramid yarn
- Inner (subunit) jacket** : LSZH
- Colour : SM 9/125 - Yellow *
MM 50/125 - Green *
MM 62,5/125 - Orange *
- Outer jacket** : LSZH
- Colour : SM 9/125 - Yellow *
MM 50/125 - Green *
MM 62,5/125 - Orange *
** Other jacket colours available on request*
- Rip-cord** : under outer jacket
- Identification marking**
- Print colour : black
- Print method : ink jet
- Standard legend : manufacturer's name, job number, type of cable, length marking @ 1 m intervals
Custom print legends available on request.

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|---|------------|---|---|---|-----------------------------------|
| 0 | 15.10.2007 |  | <p>J-V(ZN)HH 2f Indoor Heavy-Duplex Cable</p> | | |
| | | |  | <p>Issue</p> <p>34T1.0 34S1.0</p> | <p>Page 1/2</p> |
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FIBRE SPECIFICATION

| Fibre Type (fibre order code) | Multimode Fibres | | | | | | Dimensions | | | |
|---------------------------------|---|--|--------|---|------------------|---------|-------------------------|--------------------|------------------------|-----------------------|
| | Optical Performance | | | | | | Numerical Aperture (um) | Core Diameter (um) | Cladding Diameter (um) | Coating Diameter (um) |
| | Attenuation (typical / maximum) (dB/km) | Bandwidth (overfilled launch) (MHz.km) | | 1Gbps Ethernet Transmission Link Length | | | | | | |
| | 850 nm | 1300 nm | 850 nm | 1300 nm | 850 nm | 1300 nm | | | | |
| Multimode 62.5/125 OM1 (G6) | 2.8/3.3 | 0.7/1.2 | 220 | 600 | 300 | 550 | 0.275 ± 0.015 | 62.5 ± 2.5 | 125 ± 1.0 | 245 ± 10 |
| Multimode 50/125 OM2 (G5) | 2.5/3.2 | 0.7/1.0 | 500 | 800 | 550 | 550 | 0.20 ± 0.015 | 50 ± 2.5 | 125 ± 1.0 | 245 ± 10 |
| Multimode 50/125 OM2 (M5) | 2.3/2.8 | 0.6/0.9 | 600 | 1200 | 600 | 600 | 0.20 ± 0.015 | 50 ± 2.5 | 125 ± 1.0 | 245 ± 10 |
| Multimode 50/125 OM2 (N5) | 2.3/2.8 | 0.6/0.9 | 600 | 1200 | 750 | 2000 | 0.20 ± 0.015 | 50 ± 2.5 | 125 ± 1.0 | 245 ± 10 |
| Multimode 50/125 10GBE OM3 (X5) | - / 3.2 | - / 1.1 | 1500 | 500 | 300 ^A | - | 0.20 ± 0.015 | 50 ± 2.5 | 125 ± 1.0 | 245 ± 10 |
| Multimode 50/125 10GBE OM3 (Y5) | - / 3.2 | - / 1.1 | 3500 | 500 | 550 ^A | - | 0.20 ± 0.015 | 50 ± 2.5 | 125 ± 1.0 | 245 ± 10 |

Note A - 10 Gbps Ethernet

| Fibre Type (fibre order code) | Singlemode Fibres | | | | | | Dimensions | | | |
|------------------------------------|---|-----------------------------------|---------|-------------------------------|-------------------------------|--------------------------|------------|------------------------|-----------------------|----------|
| | Optical Performance | | | | Cable Cut-Off Wavelength (nm) | Mode Field Diameter (um) | | Cladding Diameter (um) | Coating Diameter (um) | |
| | Attenuation (typical / maximum) (dB/km) | Chromatic Dispersion (ps/(nm.km)) | | Individual fibre PMD (ps/√km) | | 1310 nm | 1550 nm | | | |
| | 1310 nm | 1550 nm | 1310 nm | 1550 nm | | | | | | |
| Singlemode 9/125 G.652D - LWP (S9) | 0.33/0.5 | 0.25/0.4 | 3.5 | 18.0 | ≤ 0.2 ^B | ≤ 1260 | 9.2 ± 0.4 | 10.4 ± 0.4 | 125 ± 1.0 | 245 ± 10 |
| Singlemode 9/125 G.652D - ZWP (E9) | 0.32/0.5 | 0.25/0.4 | 3.5 | 18.0 | ≤ 0.1 ^B | ≤ 1260 | 9.2 ± 0.4 | 10.4 ± 0.4 | 125 ± 0.7 | 245 ± 10 |
| Singlemode 9/125 G.655 (B9) | - | - / 0.32 | - 8.0 | 2.6 - 6.0 ^C | < 0.1 ^B | ≤ 1260 | - | 8.4 ± 0.6 | 125 ± 0.7 | 245 ± 5 |

Note B - As measured with Low Mode Coupling (LMC) technique in fiber form, value may change when cabled.

Note C - Chromatic dispersion value at 1530 - 1565 nm



ORDER EXAMPLE

2100 m J-V(ZN)HH 2E9/125G.652D YEL; cable specification 34T1

MECHANICAL AND ENVIRONMENTAL PROPERTIES

| | | |
|--------------------------------------|-------------------------------|--------------------------------|
| Max. tensile strength (installation) | IEC 60794-1-2/E1A | 200 N |
| Crush resistance | IEC 60794-1-2/E3 | 1000 N/10cm |
| Impact resistance | IEC 60794-1-2/E4 | 3 impacts (w/5N.m) |
| Minimum bend radius (long term) | IEC 60794-1-2/E11A | 10x cable diameter (no load) |
| Minimum bend radius (short term) | IEC 60794-1-2/E11B | 15x cable diameter (load) |
| Flammability | EN 50266-1&2 (IEC 60332-3-24) | Suitable for indoor use |
| Acid gases | EN 50267-1&2 | Suitable for indoor use |
| Smoke density | EN 50268-1&2 | Suitable for indoor use |
| Temperature range | IEC 60794-1-2/F1 | |
| installation | | -5 °C to + 40 °C |
| operation | | -20 °C to + 50 °C |
| storage | | -25 °C to + 60 °C |
| Cable size: | | |
| Buffer nominal diameter | | 0,9 ± 0,05 mm |
| Simplex nom. diameter | | 2,4 ± 0,1 mm |
| Cable dimensions | | (3,6 ± 0,2) x (6,0 ± 0,2) mm |
| Cable informative nominal weight | | 28 kg/km |
| Standard put-up length / Drum size | | 2100 m / 60x30x42 cm (plywood) |

Cable life time - minimum 30 years
This cable is suitable for indoor use only.

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