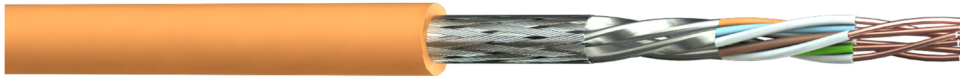


Part No: C7HR08-B222
Description: TruLAN Cat 7/Class F S/FTP. Designed to carry high bandwidth data transmission up to 10Gbps, making it the ideal choice for high speed data networks e.g. datacentres, banks etc.



Construction

| | |
|------------------------|--|
| Conductor | Bare Copper |
| AWG | 23(1) |
| Insulation Material | Skin-Foam-Skin Polyethylene (FPE) |
| Number of Pairs | 4 |
| Pair Identification | TIA 568 |
| Individual Pair Screen | Aluminium Polyester Foil, >100% Coverage |
| Drain Wire | 24(1)AWG, Tinned Copper |
| Overall Screen | Tinned Copper Wire Braid, ≥30% Coverage |
| Sheath Material | Low Smoke Halogen Free (LSHF), Orange |

Electrical Characteristics

| | |
|----------------------------------|--|
| Max. Conductor Resistance @ 20°C | ≤ 9.38 Ω/100m |
| Nominal Impedance | 100 ± 15 Ω (1-100MHz), 100 ± 18 Ω (100-250MHz), 100 ± 25 Ω (250-600MHz), |
| Capacitance Unbalanced to Earth | ≤ 330 pF/ 100m |
| NVP | 74 % |
| Max. Delay Skew | ≤ 25 nS/ 100m |
| Test Voltage | 2.5 kV(a.c) for 5 min |

Physical Characteristics

| | | | |
|--------------------|----------------------|---------------------|--|
| Overall Diameter | 7.6 ± 0.5mm | | |
| Bend Radius | Fixed 4 x OD, | Flexing 8 x OD | |
| Temperature Rating | Fixed -20°C to 60°C, | Flexing 0°C to 60°C | |

Transmission Performance

| Frequency | 4 | 10 | 16 | 31.25 | 62.5 | 100 | 250 | 500 | 600 | MHz |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Attenuation | 3.7 | 5.9 | 7.4 | 10.4 | 14.8 | 19.0 | 31.0 | 45.3 | 38.4 | dB |
| Return Loss | 23.01 | 25.00 | 25.00 | 23.64 | 21.54 | 20.11 | 17.30 | 17.30 | 17.30 | dB |
| NEXT | 78.00 | 78.00 | 78.00 | 78.00 | 75.46 | 72.40 | 66.43 | 61.92 | 60.73 | dB |
| PS NEXT | 75.00 | 75.00 | 75.00 | 75.00 | 72.46 | 69.40 | 63.43 | 58.92 | 57.73 | dB |
| ELFEXT | 78.00 | 75.30 | 71.22 | 65.40 | 59.38 | 55.30 | 47.34 | 41.32 | 39.74 | dB |
| PSELFEXT | 75.00 | 72.30 | 68.22 | 62.40 | 56.38 | 52.30 | 44.34 | 38.32 | 36.74 | dB |

Standards

| | | | |
|--------------------|---|-------------------------------|--|
| Flame Retardant | EN 60332-1-2 | Manufactured in accordance to | ISO/IEC 11801, IEC61156-5, |
| Halogen Emissions | EN 60754-2 | | EN50173, 50288-4 |
| Smoke Emissions | EN 61034-2 | CE Compliant | LVD (2014/35/EU), CPR (305/2011), RoHS2 (2011/65/EU) |
| CPR Classification | B2 _{CA} -s1, d1, a1 (EN50575:2014+A1:2016) | | |

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Information and images on this datasheet are intended for guidance only and products may vary due to manufacturing changes, technical improvements and commercial factors. We reserve the right to amend the product information without notice or liability.

ISO 9001:2015 Certificate Number: DAS94272226/0/Q

Part Number: C7HR08-B222
 Date: 30/05/2018
 Revision: 1.0
 Author: TB Checked:
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