



data cable - category 7_A - S/FTP - AWG 22/1 - 1200 MHz - FRNC Dca

- category 7 augmented - acc. to draft DIN IEC 61156-5:2008
- S/FTP (overall braid shield + foil shielded twisted pairs)
- 4 x 2 x AWG 22/1 - 100 Ohm
- CPR class Dca - s2, d2, a1

FRNC

Dca

Data cable for analogue and digital signal transmission in the frequency range up to 1200 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring. Suitable for IEEE 802.3 10/100/1000/10GBase-T, FDDI, broadband, video, ISDN, ATM, Multimedia, PoE.

construction

| | |
|------------------|----------------------------------|
| conductor | solid bare copper wire, AWG 22/1 |
| core insulation | Foam-Skin PE |
| core stranding | 2 cores twisted to a pair |
| twisting | 4 pairs twisted |
| pair shielding | AL/PET foil |
| overall shield | tinned copper braid |
| outer jacket | FRNC |
| overall diameter | 8.0 mm |

properties

| | |
|---------------------|-------------------------------------|
| min. bending radius | |
| installation | 10x outer diameter |
| operation | 5x overall diameter |
| temperature range | |
| installation | -20°C / +60°C* |
| operation | ±0°C / +50°C |
| flame retardancy | acc. to IEC 60332-1 and IEC 60332-3 |
| halogen-free | acc. to IEC 60754-2 |
| smoke density | acc. to IEC 61034 |

electric

| | |
|------------------------------|---------------|
| conductor resistance | < 65 Ω/km |
| insulation resistance | 5 GΩ x km |
| operating capacity | 45 nF/km |
| characteristic impedance | 100 Ω ± 0.15% |
| transfer impedance at 10 Mhz | < 5 mΩ/m |
| screening attenuation | > 85 dB |
| signal speed | 0.79 c |

| Frequency [MHz] | attenuation [dB/100m] | | Next [dB] | | ACR [dB/100m] | | EL-FEXT [dB/100m] | | RL [db] | |
|-----------------|-----------------------|-----------------------|-----------|----------------------|---------------|----------------------|-------------------|----------------------|---------|----------------------|
| | Typ. | MAX CAT7 _A | Next [dB] | MINCAT7 _A | Typ. | MINCAT7 _A | Typ. | MINCAT7 _A | Typ. | MINCAT7 _A |
| 1 | 1.7 | 2.1 | 105 | 78 | 103 | 75.9 | 105 | 78 | 25 | 20 |
| 4 | 3.2 | 3.7 | 105 | 78 | 102 | 74.3 | 103 | 78 | 28 | 23 |
| 10 | 5.1 | 5.8 | 105 | 78 | 100 | 72.2 | 100 | 75.3 | 30 | 25 |
| 20 | 7.1 | 8.2 | 105 | 78 | 98 | 69.8 | 95 | 69.3 | 30 | 25 |
| 31.25 | 9.0 | 10.3 | 105 | 78 | 96 | 67.7 | 93 | 65.4 | 30 | 23.6 |
| 62.5 | 13.1 | 14.6 | 105 | 78 | 92 | 63.4 | 90 | 59.4 | 30 | 21.5 |
| 100 | 16.5 | 18.5 | 102 | 75.4 | 86 | 56.9 | 85 | 55.3 | 30 | 20.1 |
| 155 | 21.5 | 23.2 | 100 | 72.5 | 78 | 49.3 | 82 | 51.5 | 29 | 18.8 |
| 200 | 23.5 | 26.5 | 98 | 70.9 | 75 | 44.4 | 78 | 49.3 | 28 | 18 |
| 300 | 29.1 | 32.7 | 96 | 68.2 | 67 | 35.6 | 70 | 45.8 | 27 | 17.3 |
| 500 | 37.0 | 42.8 | 91 | 64.9 | 54 | 22.2 | 63 | 41.3 | 26 | 17.3 |
| 600 | 41.5 | 47.1 | 88 | 63.7 | 47 | 16.6 | 60 | 39.7 | 25 | 17.3 |
| 1000 | 55.9 | 61.9 | 78 | 60.4 | 22 | -1.5 | 52 | 35.3 | 21 | 15.1 |
| 1200 | 60.8 | - | 76 | - | 15 | - | 42 | - | 19 | - |

| order code | outer jacket | colour | weight kg | standard lengths m |
|------------|--------------|--------|-----------|--------------------|
| C7A12EH-D | FRNC | yellow | 0,067 | 100 / 300 / 500 |

technical specifications are subject to change