S/FTP Trunk-Patch cord both side 6xRJ45 TM31, UC Future FRNC Cat.6A grey, Length: xxxx

\*\*tde - TP cable assemblies

The tde patch  and trunk cables are manufactured completely at the German facility in Ohrte. Production processes at tde meet the latest standards. The patch cables and trunk cables are manufactured in many different configurations using highly automated processes. The range of products on offer encompasses the entire spectrum of connector types available on the market. To guarantee consistently top quality, only the best components from renowned vendors are used. All tde production staff have the necessary qualifications and education, and have been well trained in using specialist technical equipment.
Each cable application is subjected to a full test procedure and a final visual inspection to ensure that only 100% error-free products are shipped to the customer.

Products made by tde perform at least internationally accepted quality standards and norms. The quality management system is ISO 9001, ISO 14001 and TL9000 certified.

\*\*TP Patch Cords

\*\*TECHNISCHE\_DATEN

|  |  |
| --- | --- |
| Whip length | Side A (Patchfield-End): Increments according to customer specification |
|   | Side B (Switch-End): Increments according to customer specification |

\*\*\*Connectors

|  |  |
| --- | --- |
| Type | RJ45 (TM31), with integreted dwell lever protection |
| Shielding | shielded |
| Dimensions Boot | 34 mm length |
|   | 13.4 mm width |
| Manufacturer | Hirose (connector) |
|   | tde (boot) |
| QS-Management Systems Certification | ISO 9001 |
|   | ISO 14001 |
|   | TL 9000 |

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\*\*\*TP Cable

Application
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards
EN 50173-1; EN 50288-4-2
ISO/IEC 11801; IEC 61156-6

Flame resistance
LSHF (FRNC): IEC 60332-1; IEC 60754-2; IEC 61034

|  |  |
| --- | --- |
| Conductor | CU-wire, Ø 0.42 mm (AWG27/7) |
| Insulation | Foam skin PP, diameter 0.98 mm |
| Twisting | 2 cores to the pair |
| Pair screening | Al-laminated plastic foil |
| Cable lay up | 4x pimf to the core |
| Cable Screen | Tinned copper braid |
| Sheath | LSHF orange RAL 2003 |
| Stranding (6x) | 0+6 stranded to the cable core, filler in the centre |

|  |  |  |
| --- | --- | --- |
| Minimum bending radius | Without load | ≥ 25 mm |
|   | With load | ≥ 50 mm |
| Temperature range  | During operation | -20°C to +60°C |
|   | During installation | 0°C to +50°C |

|  |  |  |
| --- | --- | --- |
| Loop resistance |   | ≤ 340 Ω/km |
| Resistance unbalance |   | ≤ 3% |
| Insulation resistance | (500 V) | ≥ 5000 MΩkm |
| Capacitance | at 800 Hz | Nom. 43 nF/km |
| Capacitance unbalance |   | ≤ 1600 pF/km |
| Impedance | 100 MHz | (100 ± 15) Ω |
| Nominal velocity of propagation |   | ca. 79% |
| Signal transit time |   | ≤ 427 ns/100m |
| Delay skew |   | ≤ 12 ns/100m |
| Test voltage | (DC, 1 min.) core/core & core/screen | 1000 V |
| Coupling resistance | at 1 MHz | 25 mΩ/m |
|   | at 10 MHz | 15 mΩ/m |
|   | at 30 MHz | 30 mΩ/m |
| Coupling attenuation |   | 75 dB |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| F MHZ | Atten- uation dB/10m | NEXT dB | PS- NEXT dB | ACR dB/100m | ELFEXT dB/100m | PS- ELFEXT dB/100m | Return loss dB |
| 1.0 | 0.3 | 90 | 87 | 87 | 80 | 77 | 23 |
| 4.0 | 0.6 | 90 | 87 | 84 | 80 | 77 | 24 |
| 10.0 | 1.0 | 90 | 87 | 80 | 80 | 77 | 25 |
| 16.0 | 1.3 | 90 | 87 | 77 | 76 | 73 | 25 |
| 20.0 | 1.4 | 90 | 87 | 76 | 74 | 71 | 25 |
| 31.2 | 1.8 | 90 | 87 | 72 | 70 | 67 | 25 |
| 62.5 | 2.6 | 90 | 87 | 64 | 64 | 61 | 23 |
| 100.0 | 3.2 | 87 | 84 | 55 | 60 | 57 | 21 |
| 125.0 | 3.6 | 85 | 82 | 49 | 58 | 55 | 20 |
| 155.5 | 4.0 | 84 | 81 | 44 | 56 | 53 | 19 |
| 175.0 | 4.3  | 83 | 80 | 40 | 55 | 52 | 19 |
| 200.0 | 4.6 | 82 | 79 | 36 | 54 | 51 | 18 |
| 250.0 | 5.1 | 81 | 78 | 30 | 52 | 49 | 18 |
| 300.0 | 5.6 | 80 | 77 | 24 | 50 | 47 | 17 |
| 450.0 | 6.9 | 77 | 74 | 8 | 47 | 44 | 17 |
| 600.0 | 7.9 | 75 | 72 | -4 | 44 | 41 | 17 |
| 750.0 | 8.7 | 73 | 70 |   | 42 | 39 |   |
| 900.0 | 9.7 | 72 | 69 |   | 41 | 38 |   |
| 1000.0 | 10.2 | 71 | 68 |   | 40 | 37 |   |

|  |  |
| --- | --- |
| Designation | Li-02YSCH |
| Type | 4x2x0.42L PiMF FRNC |
| Outer diameter | 17.8 mm |
| Fire load | 2094 MJ/km |
| Fire load | 0.582 kWh/m |
| Weight | 272 kg/km |
| Copper number | 144 |
| Tensile force | 600 N |