Telco Hydra Panel 24xRJ45Jack/ 1xTelco 45° Male shielded, 1U, Length: xxxx in cm

\*\*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 Telco Cables

\*\*TECHNISCHE\_DATEN

|  |  |
| --- | --- |
| Application | Cisco VG-Series Analog Gateways |
| Entry | 1x Telco (RJ21) Male, shielded |
| Exit | 24x RJ45 Jack, shielded |
| Length | xxxx in cm |

\*\*\*TP Patch Panels

|  |  |
| --- | --- |
| Type | RJ45 Jack, shielded |
| Number of Ports | 24 |
| Color | Light Gray (RAL 7035) |
| Dimensions | 19"/1U |

\*\*\*Connectors

|  |  |
| --- | --- |
| Type | Telco (RJ21) Male, shielded |
| Number of poles | 50 |
| Cable outlet | 45° (skewed) |
| Cover | Full metal |
| Termination technique | Insulation displacement |
| Mounting | screw locking |
| Manufacturer | tde/TE |

\*\*\*TP Cable

|  |  |
| --- | --- |
| Conductor | bare copper wire, Ø 0.51 mm (AWG24/1) |
| Insulation | PE, Ø 1.1 mm |
| Twisting | 2 cores to the pair |
| Cable lay up | 4 pairs to the core |
| Sreen | Al-laminated plastic foil and Copper braid, tinned |
| Sheath | LSHF (FRNC, LSOH), grey RAL 7035 |

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

|  |  |  |
| --- | --- | --- |
| Loop resistance |   | ≤ 190 Ω/km |
| Resistance unbalance |   | ≤ 2% |
| Insulation resistance | (500 V) | ≥ 2000 MΩ\*km |
| Mutual capacitance | at 800 Hz | Nom. 48 nF/km |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km |
| Mean characteristic impedance | 100 MHz | 100 ± 5 Ω |
| Nominal velocity of propagation |   | ca. 67% |
| Propagation delay |   | ≤ 535 ns/100 m |
| Delay skew |   | ≤ 20 ns/100 m |
| Test voltage | (DC, 1 min) core/core and core/screen | 1000 V |
| Transfer impedance | at 1 MHz | 12 mΩ /m |
|   | at 10 MHz | 10 mΩ /m |
|   | at 30 MHz | 30 mΩ /m |
| Coupling attenuation |   | 80 dB |
| Segregation classification acc. EN 50174-2 |   | "d" |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| F MHZ | Attenuation dB/100m | NEXT dB | PS- NEXT dB | ACR dB/100m | PS-ACR dB/100m | ELFEXT dB/100m | PS- ELFEXT dB/100m | Return loss dB |
| 1.0 | 1.9 | 71 | 68 | 69.1 | 66.1 | 68 | 65 | 20 |
| 4.0 | 3.7 | 62 | 59 | 58.3 | 55.3 | 56 | 53 | 23 |
| 10.0 | 6.0 | 56 | 53 | 50.0 | 47.0 | 48 | 45 | 25 |
| 16.0 | 7.6 | 53 | 50 | 45.4 | 42.5 | 44 | 41 | 25 |
| 20.0 | 8.5 | 51 | 48 | 42.5 | 39.5 | 42 | 39 | 25 |
| 31.2 | 10.7 | 49 | 46 | 38.3 | 35.3 | 38 | 35 | 24 |
| 62.5 | 15.7 | 44 | 41 | 28.3 | 25.3 | 32 | 29 | 22 |
| 100.0 | 19.8 | 41 | 38 | 21.2 | 18.2 | 28 | 25 | 20 |
| 125.0 | 22.3 | 40 | 37 | 17.7 | 14.7 | 26 | 23 | 19 |
| 155.5 | 24.2 | 38 | 35 | 13.8 | 10.8 | 24 | 21 |   |
| 175.0 | 25.7 | 37 | 34 | 11.3 | 8.3 | 23 | 20 |   |
| 200.0 | 27.5 | 36 | 33 | 8.5 | 5.5 | 22 | 19 |   |
| 250.0 | 29.2 | 35 | 32 | 5.8 | 2.8 | 20 | 17 |   |
| 300.0 | 32.0 | 34 | 31 | 2.0 | -1.0 | 16 | 13 |   |

|  |  |
| --- | --- |
| Outerdiameter | 6.4 mm |
| Fire load | 433 MJ/km |
|   | 0.120 kWh/m |
| Weight | 47 kg/km |
| Copper content | 27 |
| Tensile force | 120 N |