

Twisted Pair Patch Cord - Category 6_A Class E_A - S/FTP



✓ LSZH

✓ DRAKA UC 900 SS CAT 7 S/FTP PimF

✓ 2x Hirose TM31 plug

✓ Yellow colored plug for CAT 6_A

Abstract

CAT 6_A Class E_A, S/FTP Twisted Pair Patch Cord, Cu, LSZH, DRAKA UC 900 SS, Hirose TM31, AWG 27/7

Features

- 2x RJ45 (8P8C) connectors; Hirose TM31
- Boots with kink protection, strain relief and latch protection
- Cable DRAKA UC 900 SS CAT 7 S/FTP PIMF
- Conductor: Cu (Copper)
- Shielding: S/FTP (complete braid shielding, pairs foil shielded)
- Structure: 4x 2 AWG 27/7, twisted pair
- Sheath: LSZH
- PoE+ ready

Product Overview

The Category 6_A Class E_A patch cords are manufactured and tested to the EN-50173-1; EN-80288-4-2 and ISO/IEC 11801; IEC 61156-6 standard. They will guarantee the installed cabling system is compliant with the ISO & EN channel specification requirements and will provide optimum performance levels of Category 6_A cabling. The performance of the raw cable is tested up to 1000 MHz inclusive performance characteristics such as near end cross talk ("NEXT").

The patch cords are designed and produced to fulfill the highest requirements of various application areas in full volume.

Each cable is fitted with a molded boot which comes with kink protection and strain relief.

Furthermore the boot is equipped with a latch protection that prevents the latching lever against breaking.

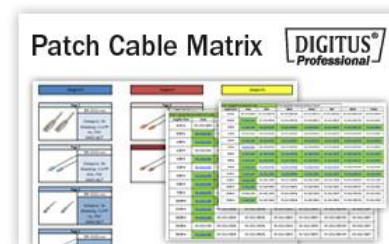
You can easily identify the Category 6_A, because of the transparent yellow colored connector.

Patch Cord Matrix and Configuration

Patch cords can be wide-ranging. Therefore we prepared a complete overview of our range, which guides you to the cable you require.

One E-Mail or one call will be enough and we will send you the latest version as a PDF file.

You can also check our Patch Cord Configuration tool on our website www.digitus-professional.com



Performance- and Specification Overview

| | |
|------------------------------------|---|
| Conductor | Stranded AWG 27/7 bare copper, \varnothing 0.42 mm |
| Insulations | FO-PE (Foamed Polyethylene) |
| Outer sheath | LSZH (Low Smoke Zero Halogen) |
| Overall diameter | 5.9 mm |
| Bending radius | without tensile loading: ≥ 25 mm; with tensile loading: ≥ 50 mm |
| RJ45 connector | Hirose TM31 |
| Color code | Orange x White, Green x White, Blue x White, Brown x White |
| Wiring standard | EIA/TIA 568B |
| Pin assignment | 1:1 |
| Durability | 750 insertion cycles |
| Loop resistance | $\leq 340 \Omega / \text{km}$ |
| Resistance unbalance | $\leq 3\%$ |
| Insulation resistance (500 V) | $\geq 2000 \text{ M}\Omega \cdot \text{km}$ |
| Capacity at 800 Hz | Nom. 43 nF/km |
| Capacity unbalance (Pair/Earth) | $\leq 1500 \text{ pF/km}$ |
| Characteristic impedance (100 MHz) | $100 \pm 5 \Omega$ |
| Propagation velocity | ca. 79 % |
| Signal transit time | $\leq 427 \text{ ns}/100\text{m}$ |
| Duration difference | $\leq 12 \text{ ns}/100\text{m}$ |
| Test voltage (DC, 1 min) | |
| Conductor | 1000 V |
| Coupling resistance | at 1 MHz: $10\text{m}\Omega / \text{m}$; at 10 MHz: $10\text{m}\Omega / \text{m}$; at 30 MHz: $30\text{m}\Omega / \text{m}$ |
| Coupling attenuation | 85 dB |
| Temperature range | during operation: $-20 \text{ }^\circ\text{C}$ up to $+60 \text{ }^\circ\text{C}$; during installation: $0 \text{ }^\circ\text{C}$ up to $+50 \text{ }^\circ\text{C}$ |
| Flame retardancy | IEC 60332-1; IEC 60754-2 |
| Smoke emission | IEC 61034 |
| Typical applications | IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T |
| Norms | ISO/IEC 11801; EN-50173-1; ANSI/TIA 568-C; EN 50288-4-2 |
| Colors | Various colors available on request |
| Marking | Brand name, cable length and cable information |

Transmission Properties

| Freq. (MHz) | Attenuation (dB/10m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100m) | ACRF (dB/100M) | PS-ACRF (dB/100m) | Return loss (dB) |
|-------------|----------------------|-----------|--------------|---------------|----------------|-------------------|------------------|
| 1.0 | 0.3 | 90 | 87 | 90 | 90 | 77 | 23 |
| 4.0 | 0.6 | 90 | 87 | 89 | 89 | 77 | 24 |
| 10.0 | 1.0 | 90 | 87 | 89 | 89 | 77 | 25 |
| 16.0 | 1.3 | 90 | 87 | 89 | 89 | 73 | 25 |
| 20.0 | 1.4 | 90 | 87 | 89 | 89 | 71 | 25 |
| 31.2 | 1.8 | 90 | 87 | 88 | 88 | 67 | 25 |
| 62.5 | 2.6 | 90 | 87 | 87 | 87 | 61 | 23 |
| 100.0 | 3.2 | 87 | 84 | 84 | 84 | 57 | 21 |
| 125.0 | 3.6 | 85 | 82 | 81 | 81 | 55 | 20 |
| 155.5 | 4.0 | 84 | 81 | 80 | 80 | 53 | 19 |
| 175.0 | 4.3 | 83 | 80 | 79 | 79 | 52 | 19 |
| 200.0 | 4.6 | 82 | 79 | 77 | 77 | 51 | 18 |
| 250.0 | 5.1 | 81 | 78 | 76 | 76 | 49 | 18 |
| 300.0 | 5.6 | 80 | 77 | 74 | 74 | 47 | 17 |
| 450.0 | 6.9 | 77 | 74 | 70 | 70 | 44 | 17 |
| 600.0 | 7.9 | 75 | 72 | 67 | 67 | 41 | 17 |
| 750.0 | 8.7 | 73 | 70 | 64 | 64 | 39 | - |
| 900.0 | 9.7 | 72 | 69 | 62 | 62 | 38 | - |
| 1000.0 | 10.2 | 71 | 68 | 41 | 61 | 37 | - |

Product Number Information

| Item code | Description | Length | Color |
|---------------|--|--------|-------|
| DK-1643-A-005 | CAT 6 _A S-FTP patch cord DRAKA UC 900 SS FRNC, TM31 | 0.5 m | Grey |
| DK-1643-A-010 | | 1.0 m | |
| DK-1643-A-020 | | 2.0 m | |
| DK-1643-A-030 | | 3.0 m | |
| DK-1643-A-050 | | 5.0 m | |
| DK-1643-A-100 | | 10.0 m | |
| DK-1643-A-150 | | 15.0 m | |
| DK-1643-A-200 | | 20.0 m | |