

Pre-Terminated Category 6A Unscreened Trunk Assemblies



Pre-terminated Category 6A Unscreened Trunk Assemblies help to reduce significantly both time and cost of a category 6A cabling installation. Terminated and tested in a controlled manufacturing environment, cut to the customer pre-ordered lengths, and ready to install in a patch panel, trunk assemblies eliminate all these operations in the field making your job easy and efficient. Trunk cables are available in a jack-to-jack and jack-to-blunt cut configurations. Trunk cables can be used with any Signamax field-configurable patch panel.

KEY FEATURES

- Ready-to-use product – cable bundles are ready for installation and require no additional termination operations except the one-ended designs
- Solid cable and keystone jacks used in the assembly meet and exceed category 6A specifications
- Pre-tested at the factory per ANSI/TIA-568-C.1 requirements
- All cable legs are labeled at both ends for easy identification and aligning in the field
- Each cable bundle is enclosed in a CMR- or CMP-rated mesh sleeve that retains the bundle and protects it during installation
- Mesh sleeve is fixed by heat-shrink tubing that can be used as an anchor point when cable pulling is needed
- Compatible with all Signamax field-configurable patch panels



ORDERING INFORMATION

Category 6A Pre-Terminated Unscreened Trunk Assemblies

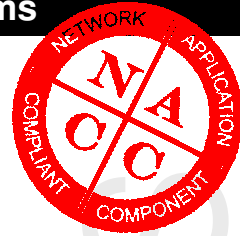
Part Number	Description
6L-C6A-JJ-P-FXXX	Category 6A 6-Leg Trunk Cable, Jack-to-Jack, Unscreened (U/UTP) Cable, CMP
6L-C6A-JB-P-FXXX	Category 6A 6-Leg Trunk Cable, Jack-to-Open, Unscreened (U/UTP) Cable, CMP

For length substitute XXX for length in feet. Minimum length is 3 m (10 ft). Maximum length is 90 m (295 ft). Standard cable color is blue. Other colors are available. Standard cable is straight-cut for either left or right cable exit. Staggered-cut cables are available. For riser-rated (CMR) cable substitute R for P in P/N.

RELATED PRODUCTS

Product/Product Group	Spec Sheet #
Unloaded High Density Multimedia Patch Panel _____	PSS.U-HD-MM-PP (A-OCT-08)

SPECIFICATIONS



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TRANSMISSION PERFORMANCE

ANSI/TIA-568-C.2: meets or exceeds category 6A (1–500 MHz) permanent link specifications
NOTE: All cable trunks require field testing after installation

TRANSMISSION MEDIA

Unscreened 100-Ohm twisted pair (U/UTP)

JACK TYPE

8p8c (8-position, 8-contact) "RJ45" style, keystone design

WIRING SCHEME

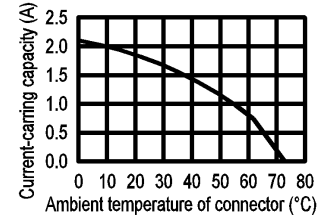
ANSI/TIA-568-C.2: T568B

WIRE GAUGE

23 AWG, solid copper

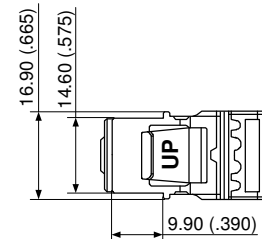
ELECTRICAL – JACK

Insulation resistance: min 500 MOhm @ 100 V_{dc}
Dielectric withstanding voltage: 1,000 V_{dc/ac} peak contact-to-contact @ 60 Hz for 1 min
Spring wire contact resistance: max 20 mOhm
IDC contact resistance: max 2.5 mOhm
Current rating: see figure



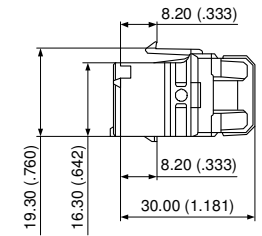
ELECTRICAL – CABLE

Spark test: 2,000 ± 250 V_{ac}
Dielectric strength: 2,500 V_{dc} / 3 seconds
Insulation resistance: min 150 MOhm/km (46 MOhm/kft)
Conductor resistance: max 9.38 Ohm / 100 m (328 ft) @ 20 °C (68 °F)
Resistance unbalance: max 2 %
Capacitance unbalance: max 160 pF / 100 m (328 ft)
Mutual capacitance: max 5,600 pF / 100 m (328 ft)



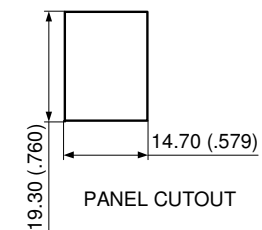
CONSTRUCTION – JACK

Housing: high-impact thermoplastic, UL94V-0 fire-retardant
Jack spring wire: phosphor bronze alloy plated with 50 µin of gold over 70–100 µin of nickel
IDC: 110 type, phosphor bronze alloy with 100-µin 100% tin (Sn) alloy



MOUNTING DIMENSIONS – JACK

D 30.00 mm H 19.30 mm W 16.90 mm
D 1.181 in H 0.760 in W 0.665 in



CONSTRUCTION – CABLE

CONDUCTOR:

Material: bare copper
Size: 23 AWG
Construction: 1/0.560 ± 0.02 mm (1/0.0221 ± 0.001 in)

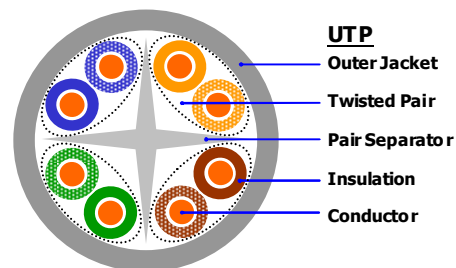
INSULATION:

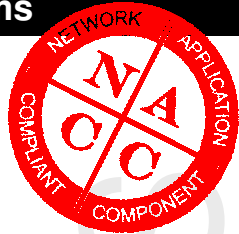
Material: CMR- or CMP-rated thermoplastic
Thickness: max average: 0.22 mm (0.009 in), min at any point: 0.12 mm (0.005 in)
Diameter: 1.0 ± 0.1 mm (0.039 ± 0.004 in)
Color coding: blue/white-blue
orange/white-orange
green/white-green
brown/white-brown

Elongation: min 300 %
Tensile strength: min 1.682 kg/mm² (0.0058 psi)
CENTRAL ELEMENT: CMR- or CMP-rated thermoplastic, cross-shaped

SHEATH:

Material: CMR- or CMP-rated thermoplastic
Diameter: 7.5 ± 0.3 mm (0.30 ± 0.01 in)
Color: see ORDERING INFORMATION
Elongation: min 100 %
Tensile strength: min 1.407 kg/mm² (0.005 psi)
Thickness: average: 0.65 mm (0.026 in), min at any point: 0.6 mm (0.024 in)
Aging: at 100°C for 168 hrs – min elongation retention: 50 %, min tensile strength retention: 75 %





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- **MECHANICAL – JACK**

Total contact force: min 800 g for 8 wire leads
Retention force: 50 N (11 lbf) for 60 ± 5 s
Mating cycle life: min 750 cycles

- **MECHANICAL – CABLE**

Tensile strength: > 400 N (90 lbf)
Minimum bend radius: 25 mm (1 in)

- **ENVIRONMENTAL CONDITIONS**

Storage: -40 °C – +70 °C (-40 °F – +158 °F)
Operation: -10 °C – +60 °C (+14 °F – +140 °F)
RH (operation): max non-condensing 93 %

- **COMPLIANCE**

ANSI/TIA-568-C.2, IEC 60603-7, IEC 61156-6, IEC 60332-1-2, FCC Part 68 Subpart F, UL 94V-0, UL 444, UL 1666

- **APPLICATIONS**

X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, 10GBASE-T, TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD

- **WARRANTY**

5-year limited component warranty
10-year Signamax Link/Channel Warranty
15-year Signamax Extended Component Warranty
25-year Signamax Cabling System Warranty



SPECIFICATIONS