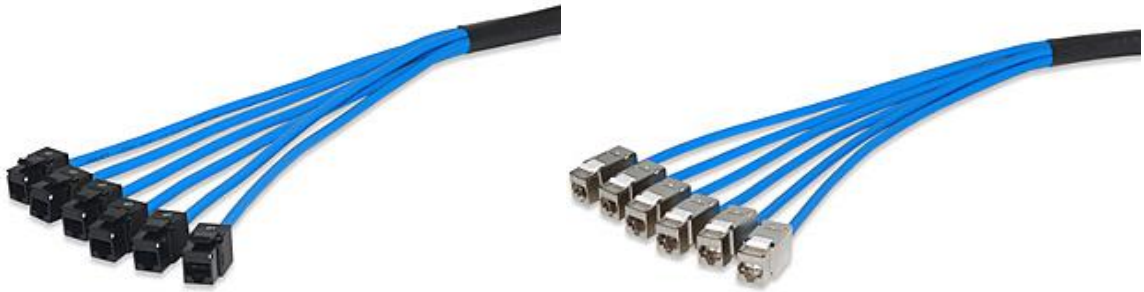
VOYGAR
QUALITY IS OUR CONCERN

Cat6 Pre-Terminated Copper Trunk Cable, 23AWG, 1000Base-T

Cat6 Pre-terminated Trunk Assemblies help to reduce significantly both time and cost of a category 6 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 cable assemblies can be provided in an unscreened (U/UTP) and screened (F/UTP) versions in either in a jack-to-jack, jack-to-plug, or jack-to-blunt cut configurations to support the widest range of applications. Cables can be used with any field-configurable patch panel (screened assemblies are not compatible with PEMP1S4S panels).



- Ready-to-use product-cable bundles are ready for installation and require no additional termination operations.
- Solid cable and keystone jacks used in the assembly meet category 6 specifications.
- Pre-tested at the factory per ANSI/TIA-568-C.1 requirements.
- All cable are labelled at both ends for easy identification in the field.
- Each cable bundle is enclosed in a CMP-rated mesh sleeve protects it during installation.
- Mesh sleeve is fixed by heat-shrink tubing that can be used when cable pulling is needed.

TRANSMISSION PERFORMANCE
ANSI/TIA-568-C.2: meets or exceeds category 6 (1-250 MHz) permanent link specifications

TRANSMISSION MEDIA
Unscreened 100-Ohm twisted pair (U/UTP)
Screened 100-Ohm twisted pair (F/UTP)

JACK TYPE
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@100Vdc
Dielectric withstanding voltage:	1,000Vdc/ac peak contact-to-contact @60 Hz for 1 min
Spring wire contact resistance:	max 20 mOhm
IDC contact resistance:	max 2.5 mOhm

ELECTRICAL – CABLE

Spark test	2,000 ± 250 Vac
Dielectric strength	2,500 Vdc / 3 seconds

Stresemannstraße 23
10963 Berlin
Tel. 030 65774162
Fax. 030 700143-1359
E-mail: info@voygar.de
www.voygar.com

Insulation resistance	min 150 MOhm/km
Conductor resistance	max 9.38 Ohm / 100@ 20 °C
Resistance unbalance	max 2 %
Capacitance unbalance	max 160 pF
Mutual capacitance	max 5,600 pF

ELECTRICAL – PLUG

Insulation resistance	min 500 MOhm @ 100 Vdc
Dielectric withstanding voltage	1,000 Vdc/ac peak contact-to-contact@60 Hz for 1 min
Contact resistance	max 20 mOhm

CONSTRUCTION – JACK

Housing

Unscreened	high-impact thermoplastic, UL94V-0 fire-retardant
Screened	zinc-alloy fully shielded, grounding post for 2.5 x 0.5-mm female disconnect
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 alloy

MOUNTING DIMENSIONS – JACK

Unscreened	D 30.00 mm H 19.30 mm W 16.90 mm
Screened	D 42.40 mm H 25.80 mm W 16.90 mm

CONSTRUCTION – CABLE

Cable Count	6
Category	CAT6-U/UTP or F/UTP
CONDUCTOR Material	bare copper
CONDUCTOR Size	23 AWG
Diameter for Unscreened	0.560 mm
Diameter for Screened	0.570 mm
Colour coding	Blue/white-blue -Orange/white-orange-Green/white-green- Brown/white-brown
Tensile	strength min 1.682 kg/mm2
SHEATH Material	CMP-rated thermoplastic
SHEATH Material	CMP-rated thermoplastic
SHEATH Thickness	0.55 ± 0.05 mm
SHEATH Colour	Customized
Cable Diameter Unscreened	6.20 mm
Cable Diameter Screened	6.80 mm
SCREEN PET tape	0.023 mm thickness
SCREEN Aluminium/PET tape	0.025 mm thickness

CONSTRUCTION – PLUG

Assembly	FCC Part 68 Subpart F
Housing	UL listed 94V-0 flame retardant polycarbonate
IDC blades	phosphor bronze, min 50 µin of gold plating over 100 µin of nickel in contact area.

MECHANICAL – JACK

Total contact force	min 800 g for 8 wire leads
Retention force	50 N for 60 s
Mating cycle life	min 750 cycles

MECHANICAL – CABLE

Tensile strength	>400 N

Minimum bend radius	25 mm

MECHANICAL – PLUG

Retention	50N for 60±5 s
Mating cycle life	min 750 cycles
Tensile strength	≥ 20 N per wire

ENVIRONMENTAL CONDITIONS

Storage	-40 °C – +70 °C
Operation	-10 °C – +60 °C
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

Easy connection in switches and patch panels.
Rated for any 1/10GBase-T Ethernet.
Used for copper backbone and cross-connect cabling.

Ordering Information

PN	Description
T6EUJJXX	CAT6 Trunk Cable, Jack-to-Jack, Unscreened (U/UTP) Cable 03-90Mt
T6EUJPXX	CAT6 Trunk Cable, Jack-to-Plug, Unscreened (U/UTP) Cable 03-90Mt
T6EFJJXX	CAT6 Trunk Cable, Jack-to-Jack, Screened (F/UTP) Cable 03-90Mt
T6EFJPXX	CAT6 Trunk Cable, Jack-to-Plug, Screened (F/UTP) Cable 03-90Mt

length substitute XX for length in Meter. Minimum length is 3 Mt. Maximum length is 90 Mt.
Unscreened cable colour is blue. Screened cable is grey. Other colours are available.