DataLink 500A

Category 6A F/UTP 100 Ohm Modular Cords

HES Cabling Systems
Connecting Networks™

Description

HCS DataLink 500A modular cord series consists of 100 Ohm impedance, 4-pair F/UTP terminated cords for work area, jumper and patching in local area networks (LANs). HCS DataLink 500A modular cords feature a unique termination method, combining strength relief injection molding into the RJ-45 plug with a removable boot. This design provides the advantages of both molded and non-molded terminations. HCS DataLink 500A modular cords exceed all ANSI/TIA/568-C.2 requirements for Category 6A needed to support 10GBASE-T and are specially designed to provide outstanding Alien Crosstalk Loss. HCS DataLink 500A modular cords can be used with either T568A or T568B modular jacks. The standard jacket color is gray RAL 7035, but they are available in 10 different jacket colors.

Applications

HCS DataLink 500A modular cords support all presently available and future LAN applications, including the following protocols:

- ☑ 10GBASE-T 10 Gigabit Ethernet
- ☑ 1000BASE-T Gigabit Ethernet
- ☑ ATM 155
- ☑ TP-PMD
- ☑ 100BASE-T Fast Ethernet
- ☑ 100BASE-T2
- ☑ 100BASE-T4
- ☑ 100BASE-TX
- ☑ Token Ring 100 Mbps
- ☑ ATM 52
- ☑ ATM 25
- ☑ 10BASE-T Ethernet
- ☑ Token Ring 4 Mbps and 16 Mbps
- ☑ Broadband and Baseband Video
- ☑ ISDN Basic and Primary Access
- ☑ 1BASE-5 Starlan
- ☑ ISALAN
- ☑ ITU V.21 and X.11

Qualifications and Approvals

HCS DataLink 500A Cables are tested and verified for full compliance with the following standards:

- ➔ Category 6A according to ANSI/TIA/568-C.2
- ➔ Category 6 according to ANSI/TIA/568-C.2
- ➔ Category 6 according to ISO/IEC-11801 (2nd Edition)

Benefits & Features

- ➔ Testing every cord prior to shipment - Providing the highest degree of quality assurance.
- ➔ Unique double termination method - Providing the advantages of both molded and non-molded terminations.
- ➔ Exceptional material properties and cable design - Providing the highest degree of reliability.
- ➔ High Return Loss and NEXT Loss values - Providing low BER (Bit-Error-Rate) in all applications.
- ➔ Extremely high pair-balance and overall cable shield - Providing excellent alien crosstalk loss and noise immunity.
- ➔ Revolutionary pair lay scheme - Providing an extremely low delay skew.
- ➔ Smooth and limp jacket - Providing comfortable cord handling.
- ➔ Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.

PHYSICAL AND MECHANICAL PROPERTIES

4 color-coded, unshielded twisted pairs cabled together around a central cross-shaped filler, overall foil shielded and jacketed. Both cable ends terminated with shielded modular plug connectors conforming to IEC 60603-7-51.

Basic Cable Conductor	Stranded, 26 AWG, 7x0.16 mm, bare annealed copper
Wire Insulation	Polyolefin
Number of Insulated Conductors	8, twisted in 4 pairs.
Color Code of Pairs	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown.
Overall Tape Wrap	None.
Overall Shield	Polyester aluminum foil, 50µm aluminum. aluminum foil out.
Drain wire	26 AWG Tinned copper wire.
Outer Jacket and Boots	LS0H Halogen free flame retardant or PVC compound.
Standard Jacket and Boot Color	Light Gray RAL 7035. Other colors available upon request.
Standard Surface Marking	Includes HCS P/N, Cable Description, Meter Mark and Batch Number.
Cable to Plug Tensile Strength	9 Kgf (90N) min.
Pulling Force	1 Kgf (10N) max.
Storage Temperature	-20 to +80C
Durability	750 mating cycles
Cable OD	6.2 mm nom.
Bend Radius	25 mm min.
Plug Housing Material	Polycarbonate, conforming to UL 94 V-0.
Plug Contact Material	50 micro-inches gold plating over 100 micro-inches nickel plated copper alloy.
Temperature Operating Range	-20 to +60C
Flame Test	IEC 60332-1.
Halogen Content in LS0H Cables	Null.