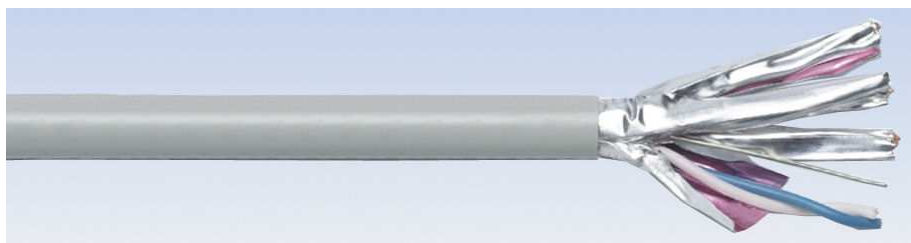


## Augmented Category 6 U/MRTP 100 Ohm Horizontal LAN Cables



### Description

HCS DataLink 500A cable series consists of 100 Ohm impedance, 4-pair and 8-pair U/MRTP cables for horizontal installations in local area networks (LANs). All cables fully conform to and provide a substantial margin above all Augmented Category 6 UTP requirements of TIA/EIA 568-B.2-10 and Category 6<sub>A</sub> of IEC 61156-5.

### Applications

HCS DataLink 500A Horizontal cables 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 25
- 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:

- Augmented Category 6 UTP according to ANSI/TIA/EIA-568-B.2-10.
- Category 6<sub>A</sub> according to IEC 61156-5.

### Benefits & Features

- Exceptional transmission properties - suitable for 10GBE applications on 100m channels.
- Testing every reel of cable prior to shipment - providing the highest degree of quality assurance.
- Exceptional material properties and cable design - providing a unique Century™ Lifetime Warranty.
- High ACR values - providing low BER (Bit-Error-Rate) in all applications.
- Extremely high pair-balance - providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation and maximizing noise immunity.
- Revolutionary pair lay scheme - providing an extremely low delay skew.
- Descending sequential meter mark - providing easy stock and left-over handling.
- Smooth and rigid jacket - proving fast and easy cable pulling and installation.
- Batch number printed every meter - providing fast retrieval of test results from data-base.
- Unique DoubleSafe™ Quality Assurance Program providing lowest rejection rate available.

### Physical and Mechanical Properties

4 color-coded twisted pairs, each covered by a metal-reflector, cabled together, overall wrapped with a polyester tape and overall jacketed. Siamese (Figure-8) cables are made of two identical 4-pair cables connected in a zip-cord formation, one cable identified with a longitudinal rib.

Basic Conductor	Solid, 23AWG, 0.57 mm, bare annealed copper
Insulation	Polyolefin
Number of insulated conductors	8, twisted in 4 pairs. (8 pairs in FIG-8 cables)
Color Code of Pairs	Blue x White, Orange x White, Green x White, Brown x White.
Individual metal reflectors (MR)	Laminated aluminum foil providing 100% coverage.
Drain wire	None.
Overall tape	Polyester tape providing 100% coverage.
Outer Jacket	LS0H Halogen free flame retardant or PVC compound.
Standard Jacket Color	Light Gray RAL 7035. Other colors available upon request.
Standard Surface Marking	Includes HCS P/N, cable description, Meter mark and Batch Number.
Pulling force	50 N/mm <sup>2</sup> max.
Short Term Bend Radius	8xOD mm
Long Term Bend Radius	4xOD mm
Storage Temperature	-20 to +80C
Temperature operating range	-20 to +60C
Flame Test	IEC 60332-1
Halogen content in LS0H cables	Null.