

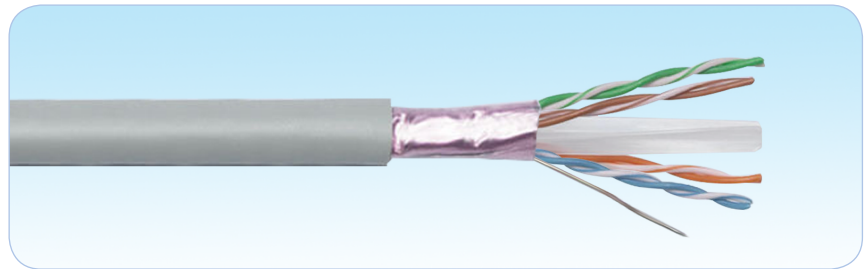
### Description

**HCS DataLink 500A cable series consists of 100 Ohm impedance, 4-pair F/UTP cables for horizontal installations in local area networks (LANs). All cables fully conform to and provide a substantial margin above all Category 6A ScTP requirements of ANSI/TIA-568.2-E and Category 6A of IEC 61156-5. All cables fully support all IEEE 802.3 PoE applications including Type 1, 2, 3 & 4, CISCO UPoE & UPoE+ and HDBase-T PoH.**

### 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 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 ScTP according to ANSI/TIA-568.2-E
- Category 6A 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 and 50µ aluminum shield - Providing excellent EMC (Electro Magnetic Compatibility) & outstanding alien-crosstalk loss, minimizing radiation and maximizing noise immunity.
- Co-extruded crisp and clear spiral color coding of wires - Providing positive wire identification and ease of installation.
- Descending sequential meter mark - Providing easy stock and left-over handling.
- 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, unshielded twisted pairs cabled together around a star-shaped filler, overall shielded with aluminum foil and overall jacketed.

Basic Conductor	Solid, 23AWG, bare annealed copper (UL444)
Insulation	Solid PE. OD: 1.10 mm and 1.15 mm nom.
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.
Core Wrap	Polyester tape
Drain Wire	Solid, 26AWG tin-coated copper wire applied above the polyester tape.
Overall Shield	Aluminum foil, providing 100% coverage, foil face in.
Outer Jacket	Low-smoke, Zero-halogen, Flame-retardant compound for indoor use.
Outer jacket Thickness	0.60 mm nom.
Standard Jacket Color	Gray RAL 7001. Other colors available upon request.
Overall Diameter	7.4 mm nom.
Standard Surface Marking	Includes HCS P/N, Cable Description, Meter Mark and Batch Number.
Pulling Force	110 N max.
Bend Radius	Dynamic: 8xD min. Static: 4xD min.
Storage Temperature	-20 to +75C
Temperature Operating Range	-20 to +60C
Flame Test	IEC 60332-1 (flame propagation), IEC 60754 (acid gas) & IEC 61034 (smoke density).