

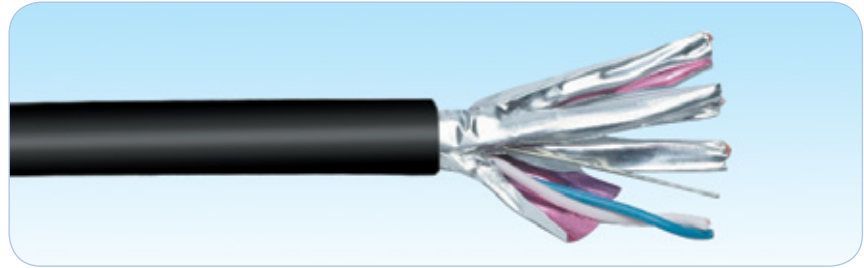
Description

HCS DataLink 500A outdoor cable series consists of 100 Ohm impedance, 4-pair and 8-pair U/FTP cables jacketed with heavy-duty, black, UV-resistant PE compound for horizontal outdoor installations in local area networks (LANs). All cables fully conform to and provide a substantial margin above all Category 6A requirements of ANSI/TIA-568-C.2 and IEC 61156-5.

Applications

HCS DataLink 500A Horizontal outdoor 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
- ☑ ITU V.21 and X.11
- ☑ 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



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 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 individual foil shields - Providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation and maximizing noise immunity.
- Revolutionary pair lay scheme - Providing an extremely low delay skew.
- 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.
- Heavy-duty, black, UV-resistant jacket - Providing low-cost outdoor cables for mild environments.
- 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, individually foil-shielded twisted pairs cabled together with a tin-coated drain-wire, overall wrapped with a polyester tape and overall jacketed with heavy-duty, black, UV-resistant PE compound for outdoor use.

Basic Conductor	Solid, 23AWG, 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 Pair Shield	Laminated aluminum foil (foil face outward) providing 100% coverage.
Drain Wire	Solid, 24AWG, 0.51 mm, tin-coated annealed copper
Overall Tape	Polyester tape providing 100% coverage.
Outer Jacket	heavy-duty, black, UV-resistant PE compound for outdoor use.
Standard Jacket Color	Black RAL 9005.
Standard Surface Marking	Includes HCS P/N, Cable Description, Meter Mark and Batch Number.
Pulling Force	50 N/mm ² max.
Short Term Bend Radius	8xOD mm
Long Term Bend Radius	4xOD mm
Storage Temperature	-20 to +80C
Conductor Size Test	UL 444.
Temperature Operating Range	-20 to +60C