

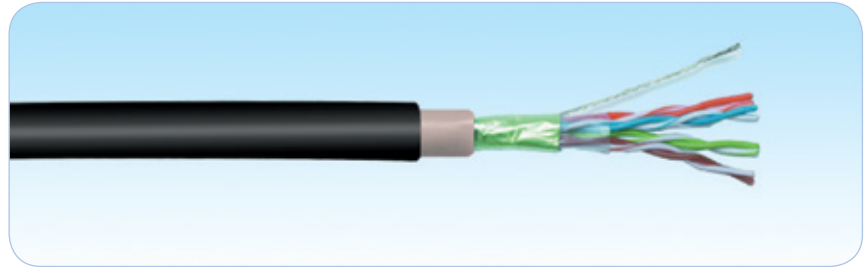
Description

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

Applications

HCS DataLink 100E outdoor cables support all relevant LAN applications, including the following protocols

- ☑ 100BASE-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 100E Cables are tested and verified for full compliance with the following standards:

- ➔ Category 5E according to ANSI/TIA-568-C.2
- ➔ Category 5E according to IEC 61156-5 (for ISO/IEC-11801 2nd Edition).
- ➔ 100 MHz according to CENELEC EN 50288-2
- ➔ Category 5 according to ICEA S-90-661-1997

Benefits & Features

- ➔ Testing every box or 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.
- ➔ 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.
- ➔ LSOH inner jacket - Providing safe use in indoor installations.
- ➔ Heavy-duty, black, UV-resistant outer jacket - Providing low-cost outdoor cables for mild environments.
- ➔ Batch number printed every meter - Providing fast retrieval of test results from data-base.
- ➔ A comprehensive product range - Providing all state-of-the-art cable constructions.
- ➔ Large variety of packaging options - Providing minimum scrap and left-over cable sections.
- ➔ Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available

PHYSICAL AND MECHANICAL PROPERTIES

4 color-coded, unshielded twisted pairs cabled together. Overall Taped-wrapped with a polyester tape and an aluminum foil and overall jacketed with LSOH compound (inner) and heavy-duty, black, UV-resistant PVC compound for outdoor use.

Basic Conductor	Solid, 24AWG, 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/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown.
Overall Tape Wrap	Plastic tape, providing 100% coverage.
Drain Wire	24 AWG solid tin-coated copper conductor laid in close contact under the shield.
Overall Shield	Laminated aluminum foil (foil face in) providing 100% coverage.
Inner Jacket	LSOH compound for indoor use.
Inner Jacket Color	Gray RAL 7035.
Outer Jacket	Heavy-duty, black, UV-resistant PVC compound for outdoor use.
Outer 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
Temperature Operating Range	-20 to +60C
Installation Temperature Range	0 to +50C
Flame Test	IEC 60332-1
Conductor Size Test	UL 444.