

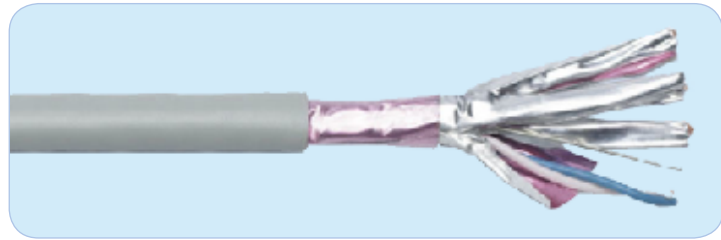
### Description

HCS DataLink 600 CAT 7 cable series consists of 100 Ohm impedance, 4-pair and 8-pair F/FTP cables for horizontal installations in local area networks (LANs). All cables fully conform to and provide a substantial margin above all Category 7 requirements of IEC 61156-5 (Specified in ISO/IEC 11801) and are tested up to 600MHz. These cables fully support all IEEE 802.3 PoE applications including Type 1 IEEE 802.3af 2008, Type 2 IEEE 802.3at 2009, Type 3 IEEE 802.3bt 2018 & Type 4 IEEE 802.3bt 2018, CISCO UPoE & UPoE+ and HDBase-T PoH.

### Applications

HCS DataLink 600 CAT 7 F/FTP Horizontal cables support all presently available and future LAN applications, including the following protocols:

- ☑ Broadband Digital and Analog CATV signals up to 600 MHz
- ☑ SOHO and multiple simultaneous applications on all 4 pairs
- ☑ 10GBASE-T (10 Gigabit Ethernet)
- ☑ 1GBASE-T (1 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.1110BASE-T Ethernet



### Qualifications and Approvals

HCS DataLink 600 CAT 7 F/FTP Cables are tested and verified for full compliance with the following standards:

- ➔ Category 7 according to IEC 61156-5 (for ISO/IEC-11801).
- ➔ 600 MHz according to CENELEC EN 50288-4

### 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 double foil shield - Providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and preventing any alien-crosstalk (AXT).
- ➔ Revolutionary pair lay scheme - Providing an extremely low delay skew.
- ➔ Smooth and rigid jacket - Providing fast and easy cable pulling and installation.
- ➔ 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.
- ➔ Full compliance with EU RoHS Directive 2011/65/CE (RoHS-2) and CPR upon request.

## PHYSICAL AND MECHANICAL PROPERTIES

4 color-coded, individually foil shielded twisted pairs cabled together with a drain wire, overall foil shielded and jacketed. Siamese (Figure-8) cables are made of two identical 4-pair cables connected in a zip-cord formation, one cable identified with two ribs on the jacket surface.

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	Polyester-aluminum foil (foil face out), providing 100% coverage.
Overall Shield	Polyester-aluminum foil (foil face in), providing 100% coverage.
Outer Jacket	LSOH Halogen free flame retardant compound.
Standard Jacket Color	Light Gray. 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
Long Term Bend Radius	4xOD
Storage Temperature	-20 to +60C
Temperature Operating Range	-20 to +60C
Installation Temperature Range	0 to +50C
Optional flame Tests	IEC 60332-1, IEC 60332-3-22, IEC 60332-3-24 or IEC 60332-3-25
Conductor Size Test	UL 444.
Acid gas and smoke generation	IEC 60754 (gas) & IEC 61034 (smoke)