# DataLink 250

## Category 6 S/FTP 100 Ohm Modular Cords

HES Cabling Systems
*Connecting Networks™*

### Description

***HCS DataLink 250 S/FTP modular cord series consists of 100 Ohm impedance, 4-pair S/FTP terminated cords for work area, jumper and patching in local area networks (LANs) ETL Verified at the component level. HCS DataLink 250 S/FTP modular cords feature a unique termination method, combining strength relief injection molding into the RJ-45 plug with a removable boot. This design provides the advantages of both molded and non-molded terminations.***
***HCS DataLink 250 S/FTP modular cords exceed all ANSI/TIA/568-C.2 and ISO/IEC-11801 (2nd Edition) Category 6 requirements and are specially designed to be backward compatible with all Category 5 and Category 5E jacks.***
***HCS DataLink 250 S/FTP modular cords can be used with either T568A or T568B modular jacks.***
***The standard jacket color is Gray RAL 7035. 10 different jacket & boot colors are available upon request.***

### Applications

HCS DataLink 250 S/FTP modular cords support all relevant LAN applications, including the following protocols:

- ☑ 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

All HCS DataLink 250 S/FTP terminated cords are tested at the component level and officially ETL verified for full compliance with ANSI/TIA/568-C.2 Category 6.

### Benefits & Features

- ➔ Testing every cord prior to shipment - Providing the highest degree of quality assurance.
- ➔ Unique double termination method - Providing the advantages of both molded and non-molded terminations.
- ➔ Exceptional material properties and cable design - Providing the highest degree of reliability.
- ➔ High Return Loss and NEXT Loss values - Providing low BER (Bit-Error-Rate) in all applications.
- ➔ Individual foil + overall copper braid - Providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation and maximizing noise immunity.
- ➔ Revolutionary pair lay scheme - Providing an extremely low delay skew.
- ➔ Smooth and limp jacket - Providing comfortable cord handling.
- ➔ Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.

### PHYSICAL AND MECHANICAL PROPERTIES

4 color-coded, individually foil shielded twisted pairs cabled together, Overall Shielded with tin-coated copper braid and overall jacketed.
Both cable ends terminated with fully shielded modular plug connectors conforming to IEC 60603-7-5.

| | |
|---|---|
| Basic Cable Conductor | Stranded, 26 AWG, 7x0.16 mm, bare annealed copper |
| Wire Insulation | Polyolefin |
| Number of Insulated Conductors | 8, twisted in 4 pairs. |
| Color Code of Pairs | Blue x White, Orange x White, Green x White, Brown x White. |
| Individual Pair Shield | Polyester-aluminum, foil face out, providing 100% coverage. |
| Overall Shield | Tin-coated copper braid. |
| Drain Wire | None. |
| Outer Jacket and Boots | LS0H Halogen free flame retardant or PVC compound. |
| Standard Jacket Color | Light Gray RAL 7035. Other colors available upon request. |
| Boot Color | Red. |
| Standard Surface Marking | Includes HCS P/N, Cable Description, Meter Mark and Batch Number. |
| Cable to Plug Tensile Strength | 9 Kgf (90N) min. |
| Pulling Force | 0.7 Kgf (7N) max. |
| Storage Temperature | -20 to +80C |
| Durability | 750 mating cycles |
| Cable OD | 6.2±0.3 mm nom. |
| Bend Radius | 25 mm min. |
| Plug Housing Material | Polycarbonate. |
| Plug Contact Material | 50 micro-inches gold plating over 100 micro-inches nickel plated copper alloy. |
| Temperature Operating Range | -20 to +60C |
| Flame Test | IEC 60332-1. |
| Halogen Content in LS0H Cables | Null. |