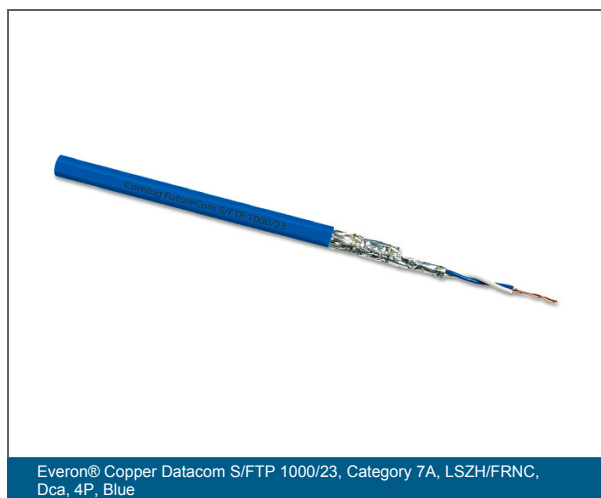


# Everon® Copper Datacom S/FTP1000/23, Category 7A, LSZH/FRNC, Dca 4P, Blue

CORNING

## Part Number: CCXEDB-I0047-C001-L7

The Everon® Copper Datacom S/FTP 1000/23 cable is designed up to 1200MHz and its transmission characteristics exceed Category 7A specifications according to EN50288-9-1 IEC 61156-5. High system margins for the complete link according to the last version of ISO/IEC 11801 and EN 50173 (Series) will be achieved by using corresponding hardware together with this highend copper cable. Due to the very low delay skew between the pairs these Everon® cables are especially suitable for Gigabit Ethernet and also for transmission of digital data for future applications up to 10 Gigabit Ethernet according to IEEE 802.3an. The cable has a streamlined construction and low weight. Overall shielding with tinned copper wire braiding and each twisted pair is individually shielded with a Allaminated foil (S/FTP). The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realisation of CE-compatible networks.



Everon® Copper Datacom S/FTP 1000/23, Category 7A, LSZH/FRNC, Dca, 4P, Blue

## Features and Benefits

S/FTP 1000/23 cable specified up to 1200 MHz

Fulfills all requirements of category 7A according to standards EN 50288-9 and IEC 61156-5

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173 series (2011)

Suitable for 10 Gigabit Ethernet according to IEEE 802.3 an

Each twisted pair is individually shielded with a Al-laminated foil around each pair (PIMF)

Overall shielding with tinned copper wire braiding

Flame retardant according to IEC 60332-1 and IEC 60332-3, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

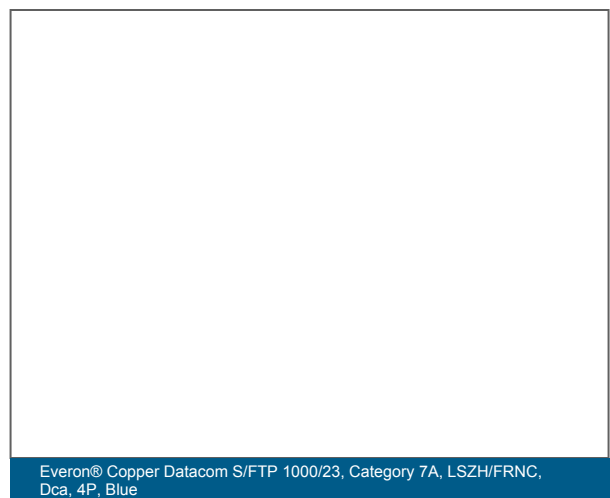
**Low smoke according to IEC 61034 and EN 50268; halogen-free (ZH/OH), no development of toxic gases in case of fire**

Sans halogène (LSZH™)

Satisfies Class B interference radiation as well as immunity standards (EN 55022 and EN 55024)

Certified by a vendor-independent and impartial test lab (GHMT AG)

Supports Power over Ethernet (PoE / PoE+ / PoE++)



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## Specifications

### General Specifications

|                    |                         |
|--------------------|-------------------------|
| Category           | 7A                      |
| Cable type         | S/FTP                   |
| Halogen-free       | Yes                     |
| Construction       | Simplex, 4P             |
| Product category   | Core product / Fastship |
| Reaction to Fire   | Dca, s1, d1, a1         |
| Legacy Part Number | CCXEDB-I0047-C001-L7    |
| Brand              | Everon                  |

### Standards

|                          |                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS                     | Free of hazardous substances according to RoHS 2011/65/EU                                                                                    |
| Approvals and Listings   | IEC 61156-5, EN 50288-9-1, ISO/IEC 11801 Ed. 2.2, EN 50173-1, ANSI/TIA-568-C.2, IEC 60304                                                    |
| Design And Test Criteria | Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W |
| Flame propagation test   | IEC 60332-1; IEC 60332-3-24                                                                                                                  |
| Smoke density            | IEC 61034-2                                                                                                                                  |
| Halogen content test     | Zero Halogen to IEC 60754-1                                                                                                                  |
| Level of corrosion       | Non-corrosive according to IEC 60754-2                                                                                                       |

### Environmental Conditions

|                                 |                 |
|---------------------------------|-----------------|
| Halogen-free                    | Yes             |
| Temperature range, installation | 0 °C to 50 °C   |
| Temperature range, operation    | -20 °C to 60 °C |

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## Cable Design

|                       |                                    |
|-----------------------|------------------------------------|
| Conductor             | Copper Wire, AWG 23/1              |
| Conductor insulation  | Halogen-free foam-skin material    |
| Twisting              | 2 cores to a pair                  |
| Pair screen           | Al-laminated foil around each pair |
| Overall screen        | Copper braid, tinned               |
| Outer jacket material | LSZH/FRNC                          |
| Outer jacket colour   | Blue                               |

## Mechanical Characteristics

|                               |                             |
|-------------------------------|-----------------------------|
| Fire load                     | 620 MJ/km                   |
| Nominal outer diameter        | 7.5 mm                      |
| Min. bend radius installation | 8x Cable-Ø                  |
| Min. bend radius operation    | 3x Cable-Ø (over flat side) |
| Maximum tensile strength      | 154 N                       |

## Electrical Characteristics

|                                         |                                                  |
|-----------------------------------------|--------------------------------------------------|
| Conductor resistance unbalance          | 1 %                                              |
| Delay skew                              | 12 ns/100 m                                      |
| Max. loop resistance                    | 135 Ω/km                                         |
| Propagation delay                       | 439 ns/100 m                                     |
| Voltage rating                          | Less than 75 V DC max and less than 50 V ACC max |
| Propagation velocity at >10 MHz (NVP*c) | 76 %                                             |
| Coupling attenuation                    | 85 dB                                            |
| Segregation Class                       | d                                                |
| Insulation Resistance                   | > 5000 MΩ*km                                     |

## Dimensions

|        |       |
|--------|-------|
| Weight | 61 kg |
|--------|-------|

# Everon® Copper Datacom S/FTP1000/23, Category 7A, LSZH/FRNC, Dca 4P, Blue

CORNING

## Ordering Information

|                    |                      |
|--------------------|----------------------|
| Product Number     | CCXEDB-I0047-C001-L7 |
| Cable length       | 1000 m               |
| Packaging method   | Drum                 |
| Units per delivery | 1/1                  |

## Electrical Characteristics

| Frequency [MHz]                             | 1     | 4     | 10    | 100   | 300   | 600  | 1000 | 1200 |
|---------------------------------------------|-------|-------|-------|-------|-------|------|------|------|
| Attenuation according to Standard [db/100m] | 2.1   | 3.7   | 5.8   | 18.5  | 32.7  | 47.1 | 61.9 |      |
| Typical attenuation [db/100m]               | 1.7   | 3.3   | 5.0   | 16.7  | 29.5  | 42.0 | 56.0 | 62.0 |
| NEXT according to Standard [db/100m]        | 78.0  | 78.0  | 78.0  | 76.0  | 69.0  | 64.0 | 61.0 |      |
| Typical NEXT Values [db/100m]               | 105.0 | 105.0 | 105.0 | 105.0 | 100.0 | 95.0 | 88.0 | 85.0 |
| ACR-N according to Standard [db/100m]       | 75.9  | 74.5  | 72.6  | 58.5  | 37.5  | 17.7 | -4.5 |      |
| Typical ACR-N Values [db/100m]              | 103.3 | 101.7 | 100.0 | 88.3  | 70.5  | 53.0 | 32.0 | 23.0 |



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany  
00 800 2676 4641 • FAX: • [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

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