

# Everon® Copper Datacom S/FTP 800/23s, Category 7, LSZH/FRNC, Dca 4P, Green

CORNING

**Part Number:**  
**UU008185157**

The Everon® Copper Datacom S/FTP 800/23s cable is designed up to 1000MHz and its transmission characteristics exceed Category 7 specifications according to EN50288-4-1 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.

## Features and Benefits

S/FTP 800/23s cable designed up to 1000 MHz

Fulfils all requirements of category 7 EN50288-4-1 and IEC 61156-5

Suitable for Classe D to F according to ISO/IEC 11801. EN50173 and 10 Gigabit Ethernet according to IEEE 802.3an

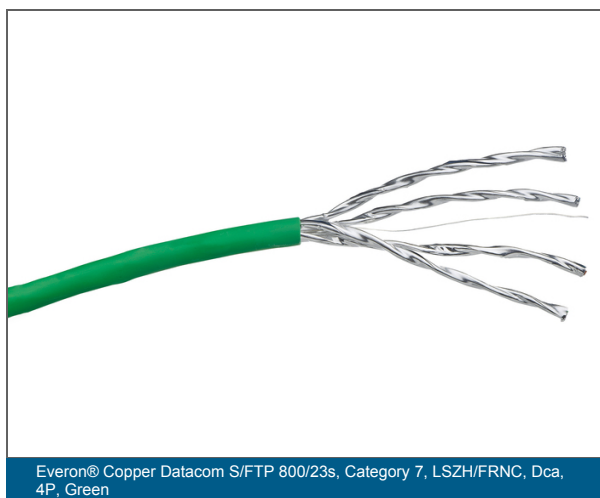
Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W

Certified by a vendor-independent and impartial test lab

Flame retardant and non corrosive (FRNC), Low smoke and halogen-free (LSZH)

Overall shielding with tinned copper wire braiding and each twisted pair is individually shielded with a Allaminated foil (S/FTP)

Length marking on jacket



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## Specifications

### General Specifications

|                    |                 |
|--------------------|-----------------|
| Category           | 7               |
| Cable type         | S/FTP           |
| Halogen-free       | Yes             |
| Construction       | Simplex, 4P     |
| Reaction to Fire   | Dca, s2, d2, a1 |
| Legacy Part Number | VOL10SFL41000   |
| Brand              | Everon          |

### Standards

|                          |                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS                     | Free of hazardous substances according to RoHS 2011/65/EU                                                                                    |
| Approvals and Listings   | IEC 61156-5, EN 50288-4-1, 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                                                                                                                                  |
| 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

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

### Cable Design

|                      |                                 |
|----------------------|---------------------------------|
| Conductor            | Copper Wire, AWG 23/1           |
| Conductor insulation | Halogen-free foam-skin material |

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## Cable Design

|                       |                                    |
|-----------------------|------------------------------------|
| Twisting              | 2 cores to a pair                  |
| Pair screen           | Al-laminated foil around each pair |
| Outer jacket material | LSZH/FRNC                          |
| Outer jacket colour   | Green                              |

## Mechanical Characteristics

|                               |            |
|-------------------------------|------------|
| Fire load                     | 620 MJ/km  |
| Nominal outer diameter        | 7.3 mm     |
| Min. bend radius installation | 8x Cable-Ø |
| Maximum tensile strength      | 154 N      |

## Electrical Characteristics

|                                         |                                                  |
|-----------------------------------------|--------------------------------------------------|
| Conductor resistance unbalance          | 1 %                                              |
| Delay skew                              | 9 ns/100 m                                       |
| Max. loop resistance                    | 154 Ω/km                                         |
| Propagation delay                       | 425 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) | 79 %                                             |
| Coupling attenuation                    | 80 dB                                            |
| Segregation Class                       | d                                                |
| Insulation Resistance                   | > 5000 MΩ*km                                     |

## Dimensions

|        |       |
|--------|-------|
| Weight | 52 kg |
|--------|-------|

## Ordering Information

|                |             |
|----------------|-------------|
| Product Number | UU008185157 |
|----------------|-------------|

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## Ordering Information

|                    |        |
|--------------------|--------|
| Cable length       | 1000 m |
| Packaging method   | Drum   |
| Units per delivery | 1/1    |

## Electrical Characteristics

| Frequency [MHz]                             | 1     | 4     | 10    | 100   | 300  | 600  | 800  | 1000 |
|---------------------------------------------|-------|-------|-------|-------|------|------|------|------|
| Attenuation according to Standard [db/100m] | 2.0   |       | 5.7   | 18.5  | 33.3 |      |      |      |
| Typical attenuation [db/100m]               | 1.8   | 3.4   | 5.0   | 16.9  | 30.7 | 43.0 | 51.0 | 58.0 |
| NEXT according to Standard [db/100m]        | 80.0  |       | 80.0  | 72.4  | 65.3 |      |      |      |
| Typical NEXT Values [db/100m]               | 102.0 | 102.0 | 102.0 | 102.0 | 95.0 | 92.0 | 90.0 | 80.0 |
| ACR-N according to Standard [db/100m]       | 78.0  |       | 74.3  | 53.9  | 32.0 |      |      |      |
| Typical ACR-N Values [db/100m]              | 100.2 | 98.6  | 87.0  | 85.1  | 64.3 | 49.0 | 39.0 | 22.0 |



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