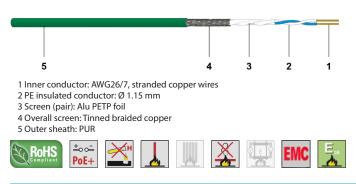
CU SPE 1P flex Industrial PUR UL



Data cable, S/FTP, AWG26/7, Euroclass E

600 MHz



Description

Electrically and mechanically high-quality 1-pair cable for Single Pair Ethernet (SPE) application and for frequencies up to 600 MHz. Complies and exceeds the requirements of ISO/IEC 11801-1 Amd 1 "General Requirements", ISO/IEC 11801-3 Amd 1 "Industrial Premises", ISO/IEC 11801-6 Amd 1 "Distributed Building Services", TR 11801-9906 "one pair channel" and IEC 61156-12 "Symmetrical single pair cables with transmission characteristics up to 600 MHz".

Excellent shielding effectiveness due to individually screened pair and overall copper braid.

Compatible with all current Single Pair Ethernet connecting hardware in accordance with IEC 63171 series.

Application

Flexible data cable with stranded conductor suitable for patch cords and equipment cords in a Single Pair Ethernet environment. For the transmission of digital and analogue data, voice and video signals.

Suitable for IP based 2-wire bus applications with conductor wire size of AWG 26/7.

Applicable for Power over Data Line (PoDL) and for 1-pair PoE.

| Construction | |
|-----------------------|-----|
| Outer sheath material | PUR |

| General properties | | | | |
|--------------------------|---|--|--|--|
| Field of application | Single pair Ethernet | | | |
| Wire colour | white/blue | | | |
| Installation temperature | -10 °C - +50 °C | | | |
| Operating temperature | -40 °C - +80 °C | | | |
| Imprint | DATWYLER «cable type» «additional text» «batch number» AWM STYLE 21329 I/II A/B 80°C 600V FT1/FT2 «meter marks» M | | | |



Electrical properties

| Category | Single pair Ethernet | | | | | |
|--|------------------------|------------------|--|--|--|--|
| Coupling attenuation | 70 dB | | | | | |
| Impedance at 100 MHz, $\pm 5\Omega$ | 100 Ω | | | | | |
| Near end unbalance attenuation LCL at 1-600 MHz | 40 dB | | | | | |
| NVP % | 78 | | | | | |
| Operating capacity | 42 pF/m | | | | | |
| Segregation class | d | | | | | |
| Shielding | shielded | | | | | |
| Transfer impedance | 10 mΩ/m | | | | | |
| Frequency [MHz] | Attenuation [dB] (10M) | Return Loss [dB] | | | | |
| 1 | 0.26 | 25 | | | | |
| 4 | 0.5 | 27 | | | | |
| 10 | 0.79 | 30 | | | | |
| 100 | 2.5 | 25 | | | | |
| 250 | 3.9 | 25 | | | | |
| 500 | 5.6 | 24 | | | | |
| 600 | 6.0 | 23 | | | | |

The performance data given are typical measured values.

| Mechanical properties | | | |
|---|--------------------------|--|--|
| Solid / Flex | Stranded wire (flexible) | | |
| AWG | 26 | | |
| Maximum tensile strength | 14 N | | |
| Minimum bending radius during installa- tion | 68 mm | | |
| Minimum bending radius permanently installed | 34 mm | | |

| Standards | | | | |
|---------------------------------|---|--|--|--|
| Reaction to fire (Euroclasses) | EN 13501-6: E _{ca} (Internal type testing, not approved for buildings) | | | |
| Smoke density | IEC 61034-1/-2, EN 61034-1/-2 | | | |
| Zero halogen no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2 | | | |
| Flame propagation | IEC 60332-1-2, EN 60332-1-2 | | | |
| Cables standard | ISO/IEC 61156-12 | | | |
| Cat./Class | Single pair Ethernet SPE and IEC 61156-12 guaranteed | | | |
| PoDL (PoE) | IEEE 802.3bu | | | |
| UL certification | UL/AWM Style 21329 | | | |

Versions

| Material number | Product | Reaction to fire | Dimensions n x p x [mm ² (AWG)] | Outer sheath colour | Outer sheath dimen- sions [mm] | CU rate [kg/km] | Weight [kg/km] | Packing unit |
|-----------------|----------------|------------------|---|---------------------|-----------------------------------|-----------------|----------------|--------------|
| 19468400EK | CU SPE 1P flex | E _{ca} | 1 x 2 x 0.132 (AWG26/7) | green | 4.3 | 9.5 | 21 | 1000 m drum |

Subject to technical modification

As of 2023-10-30 08:19:37