

# CU SPE 1P flex Industrial PUR UL

Data cable, S/FTP, AWG26/7, Euroclass E<sub>ca</sub>

600 MHz



- 1 Inner conductor: AWG26/7, stranded copper wires
- 2 PE insulated conductor: Ø 1.15 mm
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Outer sheath: PUR



## 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
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## General properties

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

## Electrical properties

Category	Single pair Ethernet
Loop resistance at 20 °C	270 Ω/km
Operating capacity	42 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	78
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance	10 mΩ/m
Coupling attenuation	70 dB
Segregation class	d

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
Minimum bending radius (permanently installed)	34 mm
Maximum tensile strength	14 N
Minimum bending radius (during installation)	68 mm

## Standards

Reaction to fire	EN 13501-6
Euroclass	E <sub>ca</sub> (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 <sup>2</sup> (AWG)]	Outer sheath colour	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Packing unit	GTIN / EAN
19468400EK	CU SPE 1P flex	Eca	1 x 2 x 0.132 (AWG26/7)	green	4.3	9.5	21.1	1000 m drum	40393910228977



**DATWYLER**

Subject to technical modification

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