CU 7002 4P Industrial PUR

Data cable, S/FTP, Category 7, AWG23, Euroclass Eca

1000 MHz

1 Inner conductor: AWG23 / 0.57 mm Ø Bare copper wire
2 PE insulated conductor: 1.4 mm Ø
3 Screen (pair): Alu PETP foil
4 Overall screen: Tinned braided copper
5 Outer sheath: PUR orange RAL 2003

Description

Electrically and mechanically superior quality Cat.7 data cable with PUR sheath - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1.
Compatible with Datwyler IP67 connecting hardware.
Excellent shielding effect due to individually screened pairs and overall copper braid.
Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

Application

Data cable for structured premises cabling - designed for use in indoor and outdoor industrial areas.
Oil resistant.
For the transmission of digital and analogue voice, video and data signals.
Suitable for all ICT network applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable for Power over Ethernet (PoE) / PoE+ / 4PPoE up to 100W.

Construction

Outer sheath material	PUR
Outer sheath colour	orange

General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-30 °C - +60 °C
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Industrial

Electrical properties

Category	Cat.7
GBit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	140 Ω/km
Operating capacity	42 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	81
Delay skew	12 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance 1/10/30 MHz	< 6/6/10 mΩ/m
Coupling attenuation	85 dB
Segregation class	d

Frequency [MHz]	Category	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		1.9	100	97	98	95	98	26
4		3.6	100	97	96	93	98	30
10		5.6	100	97	94	91	98	33
100	5e	17.9	100	97	82	79	78	33
250	6	28	100	97	72	69	69	28
500	6_A	41	92	89	58	55	56	26
600	7	46	90	87	44	41	45	25
800		52	84	81	32	29	39	23
862		54	83	80	29	26	37	22
1,000		57	80	77	23	20	33	20

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	30 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installa-tion)	60 mm
Minimum number of impacts	10

Standards

Reaction to fire	EN 13501-6
Euroclass	E_{ca}
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1
Cables standard	ISO/IEC 61156-5, EN 50288-4-1
Cat./Class	Cat.7 / Class F
Oil resistance	IEC 60811-404, EN 60811-2-1
PoE	IEEE 802.3bt Type 4 (100W)

Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm (AWG)]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
18768900EK	CU 7002 4P	Eca	4 x 2 x 0.57 (AWG23)	7.6	31.1	56.9	0.19	1000 m drum	40393910035698

Subject to technical modification

As of 2025-03-20 13:50:19