

CU 7702 4P flex TC Industrial PUR

Industrial flexible data cable, S/FTP, Category 7, AWG26, Euroclass Eca

862 MHz



- 1 Inner conductor: AWG26, tinned copper wire, stranded
- 2 PE insulated conductor: Ø 1.02 mm
- 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 patch cord with PUR sheath - exceeds the requirements of ISO/IEC 11801, IEC 61156-6, EN 50173-1 and EN 50288-4-2.

Excellent shielding effect due to individually screened pairs and overall copper braid.

Easy wire identification and termination due to different coloured wires.

Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

Compatible with Datwyler IP67 RJ45 plug.

Application

As patch cord in patch panels and as equipment connection cable - designed for use in industrial environments.

Oil resistant.

For transmission of digital and analogue voice, video and data signals.

For flexible workplace cabling with long patch cords.

Especially suitable for CP (Consolidation Point) applications.

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+.

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	275 Ω/km
Operating capacity	43 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	78
Delay skew	4 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance	13 mΩ/m
Coupling attenuation	70 dB
Segregation class	c

Frequency [MHz]	Category	Attenuation [dB] (10M)	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB] (10M)	PS-ACR-N [dB] (10M)	ACR-F [dB] (10M)	Return Loss [dB]
1		0.26	100	97	100	97	100	26
4		0.5	100	97	99	96	99	32
10		0.79	100	97	99	96	99	35
100	5e	2.67	100	97	97	94	97	30
250	6	4.3	95	92	91	88	95	27
500	6 _A	6.2	92	89	86	83	91	24
600	7	6.71	90	87	83	80	88	23
800		7.9	90	87	82	79	87	21
862		8.3	90	87	82	79	87	21

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	26
Minimum bending radius	34 mm
Minimum number of impacts	10
Repeated bending	1000 cycles

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 61156-6, EN 50288-4-2
Cat./Class	Cat.7 / Class F
Oil resistance	IEC 60811-404, EN 60811-2-1
PoE	IEEE 802.3bt (4PPoE, 100 W), in accordance with ISO/IEC TS 29125 requirements

Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm ² (AWG)]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
18768800EK	CU 7702 4P Flex PUR	Eca	4 x 2 x 0.132 (AWG26)	6.4	18	40.3	0.15	1000 m drum	40393910035735
18768800EL	CU 7702 4P Flex PUR	Eca	4 x 2 x 0.132 (AWG26)	6.4	18	40.3	0.15	500 m drum	40393910035728

Subject to technical modification

As of 2025-05-08 11:22:47