

CU 7702 4P flex Industrial PUR

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

862 MHz



- 1 Inner conductor: AWG26, bare copper wire, stranded
- 2 PE insulated conductor: Ø 0.99 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+.

General properties

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

Electrical properties

Category	Cat.7
Coupling attenuation	70 dB
Delay skew	4 ns/100 m
Gbit/s	Up to 10 Gbit/s
Impedance at 100 MHz, $\pm 5\Omega$	100 Ω
Loop resistance at 20 °C	270 Ω /km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	78
Operating capacity	43 pF/m
Segregation class	c
Shielding	shielded
Transfer impedance	10 m Ω /m

Frequency [MHz]	Category	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB] (10M)	PS-ACR-N [dB] (10M)	ACR-F [dB] (10M)	Return Loss [dB]
1		100	97	100	97	100	26
4		100	97	99	96	99	32
10		100	97	99	96	99	35
100	5e	100	97	97	94	97	30
250	6	95	92	91	88	95	27
500	6 _A	92	89	86	83	91	24
600	7	90	87	83	80	88	23
800		90	87	82	79	87	21
862		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
Tensile strength (4P)	56 N

Standards

Cat./Class	Cat.7 / Class F
Oil resistance	IEC 60811-404, EN 60811-2-1
PoE	IEEE 802.3af
Reaction to fire (Euroclasses)	EN 13501-6: E _{ca}
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Cables standard	ISO/IEC 61156-6, EN 50288-4-2

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	18.1	42	0.15	1000 m drum	40393910035735
18768800EZ	CU 7702 4P Flex PUR	Eca	4 x 2 x 0.132 (AWG26)	6.4	18.1	42	0.15	by the metre	40393910035704

Subject to technical modification

As of 2023-02-03 09:08:48