

CU 7702 4P flex Industrial PUR UL

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



Description

Electrically and mechanically superior quality Cat.7 patch cord with UL AWM certification – 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 – for high transmission security in electromagnetically stressed areas.

Oil-resistant, robust and halogen-free outer sheath in polyurethane (PUR).

UL approval for laying in cable trays together with motor cables.

Compatible with all current connector systems in accordance with EN 50173 and ISO/IEC 11801.

Compatible with the Datwyler IP67 RJ45 plug.

Application

As flexible patch cord and connection cable for Industrial Ethernet in harsh industrial environments – up to a maximum of 60 metres. Suitable for all ICT network applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801 – for a transmission rate of up to 10 Gbit/s.

Suitable for the transmission of Power over Ethernet (PoE) / PoE+.

General properties

Field of application	Industrial
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Installation temperature	-20 °C - +60 °C
Operating temperature	-40 °C - +80 °C
Outer sheath colour	green
Outer sheath material	PUR
Imprint	DATWYLER «cable type» «additional text» «ul info» «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	51.2 mm
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
UL certification	UL/AWM style
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]
19466600EK	CU 7702 4P Flex PUR UL	Eca	4 x 2 x 0.132 (AWG26)	6.4	20.75	45

