

CU 2P flex Multimedia

Flexible data cable, S/FTP, Category 7, AWG26

1200 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: FR/PVC grey RAL 7035



Description

Electrically and mechanically superior quality 2-pair Cat.7 patch cord - 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.

Optimised for RJ45 connecting systems.

Application

As patch cord in patch panels and as equipment connection cable.

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

For flexible workstation cabling with long patch cables.

Suitable for all 2 pair ICT network applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

General properties

Field of application	Indoor
Wire colour	2P: white/blue, white/orange
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Outer sheath colour	grey
Outer sheath material	FRNC/LSZH
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	Attenuation [dB] (10M)	NEXT [dB]	ACR-N [dB] (10M)	Return Loss [dB]
1		0.26	100	100	26
4		0.5	100	99	32
10		0.79	100	99	35
100	5e	2.67	100	97	30
250	6	4.3	95	91	27
500	6	6.2	92	86	24
600	7	6.71	90	83	23
800		7.9	90	82	21
862		8.3	90	82	21
1,000		8.9	90	81	20
1,200		9.9	90	80	19

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	26
Minimum bending radius	28 mm
Repeated bending	1000 cycles
Tensile strength (4P)	18 N

Standards

Cat./Class	Cat.7 / Class F
PoE	IEEE 802.3af
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
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
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
18288500EK	CU 7702 2P Flex	Eca	2 x 2 x 0.132 (AWG26)	5	12.0	29	0.09	1000 m drum	40393910040890

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18288500EZ	CU 7702 2P Flex	Eca	2 x 2 x 0.132 (AWG26)	5	12.0	29	0.09	by the metre	40393910040876
18288500EL	CU 7702 2P Flex	Eca	2 x 2 x 0.132 (AWG26)	5	12.0	29	0.09	500 m drum	40393910040883

Subject to technical modification

As of 2022-09-02 12:45:14