

CU 5502 4P flex

Flexible data cable, S/UTP, Category 5e, AWG26, Euroclass Eca

300 MHz



- 1 Inner conductor: AWG26, bare copper wire, stranded
- 2 PE insulated conductor: Ø 0.98 mm
- 3 Polyester foil
- 4 Overall screen: tinned braided copper
- 5 Outer sheath: FR/PVC, various colours



Description

Electrically and mechanically superior quality Cat.5e patch cord - exceeds the requirements of ISO/IEC 11801, IEC 61156-6, EN 50173-1 and EN 50288-2-2.

Construction optimised for fast and reliable terminations.

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.

Differently coloured sheaths facilitate clearly arranged installations and visual differentiation of services.

Application

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

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

Suitable for all ICT network applications up to class D applications (100 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

Applicable for Power over Ethernet (PoE) / PoE+.

Construction

Outer sheath material	FR/PVC
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General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white/blue, red/orange, black/green, yellow/brown, according to IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

Electrical properties

Category	Cat.5e
Gbit/s	Up to 1 Gbit/s
Loop resistance at 20 °C	220 Ω/km
Operating capacity	45 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	75
Delay skew	15 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance 1/10/30 MHz	< 20/9/25 mΩ/m
Coupling attenuation	55 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		0.2	75	72	74	71	80	24
4		0.5	70	67	69	66	78	30
10		0.8	65	62	64	61	75	30
100	5e	3.0	42	39	39	36	60	28
250		5.2	35	32	30	27	53	23
300		5.9	33	30	27	24	50	23

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	26
Minimum bending radius	20 mm
Minimal crush resistance / 10cm	1,000 N
Minimum number of impacts	10
Repeated bending	1000 cycles

Standards

Reaction to fire	EN 13501-6
Euroclass	E _{ca}
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 50288-2-2
Cat./Class	Cat.5e / Class D
PoE	IEEE 802.3af

Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm ² (AWG)]	Outer sheath colour	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
17959500EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	grey	5.1	23.5	33.2	0.11	1000 m drum	40393910042825
17951300EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	green	5.1	23.5	33.1	0.11	1000 m drum	40393910042962

Material number	Product	Reaction to fire	Dimensions n x p x [mm ² (AWG)]	Outer sheath colour	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
17951400EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	yellow	5.1	23.5	33.2	0.11	1000 m drum	40393910042948
17951500EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	red	5.1	23.5	33.2	0.11	1000 m drum	40393910042924
17951600EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	blue	5.1	23.5	33.2	0.11	1000 m drum	40393910042900
17951900EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	white	5.1	23.5	34	0.11	1000 m drum	40393910042863
17951700EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	black	5.1	23.5	33.1	0.11	1000 m drum	40393910042887
19466400EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	orange	5.1	23.5	33.2	0.11	1000 m drum	40393910231656

Subject to technical modification

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