

## 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+.

### General properties

Field of application	Indoor
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	-20 °C - +60 °C
Outer sheath material	FR/PVC
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»

## Electrical properties

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

The performance data given are typical measured values.

## Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	26
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius	20 mm
Minimum number of impacts	10
Repeated bending	1000 cycles
Tensile strength (4P)	63 N

## Standards

Cat./Class	Cat.5e / Class D
PoE	IEEE 802.3af
Reaction to fire (Euroclasses)	EN 13501-6: E <sub>ca</sub>
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 50288-2-2

## Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm <sup>2</sup> (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	0.11	1000 m drum	40393910042825
17951300EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	green	5.1	23.5	34	0.11	1000 m drum	40393910042962

Material number	Product	Reaction to fire	Dimensions n x p x [mm <sup>2</sup> (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	34	0.11	1000 m drum	40393910042948
17951500EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	red	5.1	23.5	34	0.11	1000 m drum	40393910042924
17951600EK	CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	blue	5.1	23.5	34	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	34	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	0.11	1000 m drum	

Subject to technical modification

As of 2022-09-02 10:14:03