

CU 5502 4P flex

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

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: FRNC/LSZH, 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	FRNC/LSZH
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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

Minimum insulation resistance	5,000 MΩ x km
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		5.8	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	D _{ca}
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 - applies to FRNC/LS0H
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
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
18110002DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	orange	5.1	24	33.7	0.09	1000 m drum	40393910042511
18110302DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	yellow	5.1	24	33.6	0.09	1000 m drum	40393910042375
18110102DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	grey	5.1	24	33.7	0.09	1000 m drum	40393910042467
18110202DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	green	5.1	24	33.7	0.09	1000 m drum	40393910042412
18110402DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	red	5.1	24	33.6	0.09	1000 m drum	40393910042337
18110502DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	blue	5.1	24	33.7	0.09	1000 m drum	40393910042290
18110602DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	black	5.1	24	33.7	0.09	1000 m drum	40393910042252
18110702DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	purple	5.1	24	33.7	0.09	1000 m drum	40393910042214
18110802DK	CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	white	5.1	24	33.7	0.09	1000 m drum	40393910042177

Subject to technical modification

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