

CU 5502 4P flex

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



- 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/LSOH, various colours



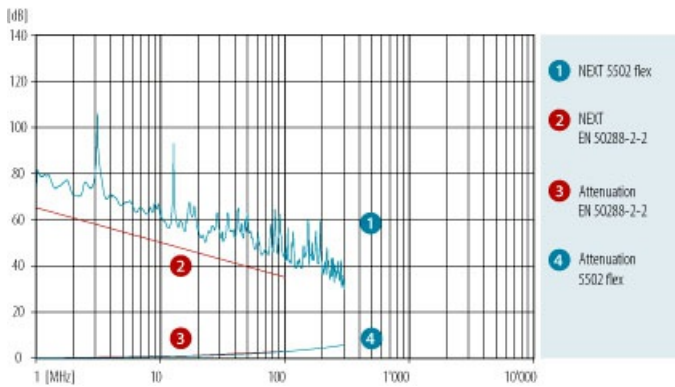
DESCRIPTION

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+.

GRAPH



ELECTRICAL CHARACTERISTICS

Category	5e					
Frequency [MHz]	1	4	10	100	250	300
Attenuation [dB/10m]	0.2	0.5	0.8	3.0	5.2	5.8
NEXT [dB]	75	70	65	42	35	33
PS NEXT [dB]	72	67	62	39	32	30
ACR-N [dB/10m]	74	69	64	39	30	27
PS-ACR-N [dB/10m]	71	66	61	36	27	24
ACR-F [dB/10m]	80	78	75	60	53	50
PS-ACR-F [dB/10m]	77	75	72	57	50	47
Return loss [dB]	24	30	30	28	23	23

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

Category:	Cat.5e
Coupling attenuation:	55 dB
Delay Skew:	15 ns/100 m
Impedance at 100 MHz, $\pm 5\Omega$:	100 Ω
Loop resistance at 20°C:	< 220 Ω /km
Near end unbalance attenuation LCL at 1-600 MHz:	40 dB
NVP %:	75
operating capacity:	45 pF/m
Transfer impedance 1/10/30 MHz:	< 20/9/25 m Ω /m

SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, Fieldbus

MECHANICAL PROPERTIES

Minimum bending radius:	20 mm
Repeated bending:	
Tensile strength (4P):	63 N
Minimal crush resistance / 10cm:	1,000 N
Minimum number of impacts:	10
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

STANDARDS

Reaction to fire (Euroclass)	EN 13501-6: D _{ca}
Wire colour	white/bluered/orangeblack/greenyellow/brown in accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
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 - applies to FRNC/LS0H
PoE	IEEE 802.3af
EMC	shielded
Segregation class	c
Cat./Class	Cat 5e / Class D - limit values as specified by IEC 61156-6 and EN 50288-2-2 guaranteed

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclass)	Dimensions n x p x [mm ² (AWG)]	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Tensile load [N]	Fire load [MJ/m]	Fire load [kWh/m]	PU
18110302DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH yellow	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110002DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH orange	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110102DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH grey	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110202DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH green	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110402DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH red	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110502DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH blue	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110602DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH black	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110702DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH purple	5.1	34	63	0.31 MJ/m	0.09	1000 m drum
18110802DK		CU 5502 4P Flex	Dca-s2,d2,a1	4 x 2 x 0.16 (AWG26)	FRNC/LSZH white	5.1	34	63	0.31 MJ/m	0.09	1000 m drum