



- 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



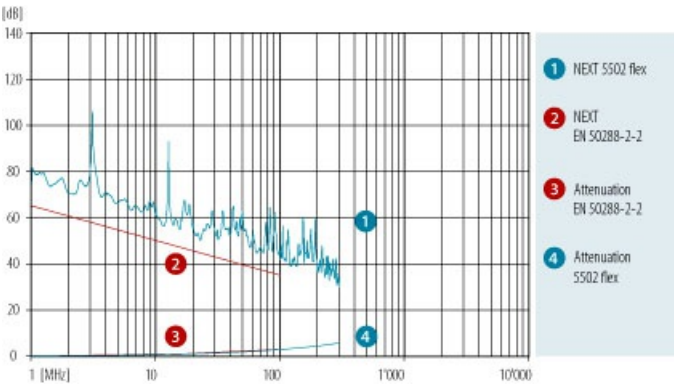
DESCRIPTION

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+.

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.

CU 5502 4P flex

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



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: E _{ca}
Wire colour	white/bluered/orangeblack/greenyellow/brownin accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
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 Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
17959500EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC grey	5.1	33	23.5	0.38 MJ/m	0.11	1000 m drum
17951700EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC black	5.1	34	23.5	0.38 MJ/m	0.11	1000 m drum
17951300EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC green	5.1	34	23.5	0.38 MJ/m	0.11	1000 m drum
17951400EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC yellow	5.1	34	23.5	0.38 MJ/m	0.11	1000 m drum
17951500EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC red	5.1	34	23.5	0.38 MJ/m	0.11	1000 m drum
17951600EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC blue	5.1	34	23.5	0.38 MJ/m	0.11	1000 m drum
17951900EK		CU 5502 4P Flex	Eca	4 x 2 x 0.16 (AWG26)	FR/PVC white	5.1	34	23.5	0.38 MJ/m	0.11	1000 m drum