

CU 5502 4P flex

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



- 1 Inner conductor:** AWG26 Bare copper wire
- 2 PE insulated conductor:** 0.98 mm Ø
- 3 Polyester foil**
- 4 Overall screen:** Tinned braided copper
- 5 Outer sheath:** FR/PVC or FRNC/LSOH different colours



DESCRIPTION

Electrically and mechanically high-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+.

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.

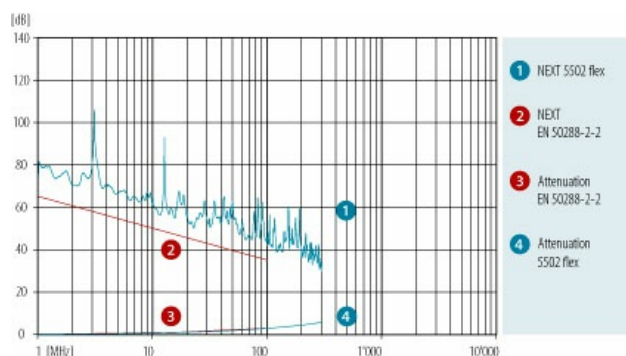
CU 5502 4P flex

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



ELECTRICAL PROPERTIES

Loop resistance at 20° C:	220 Ω/km
Mutual capacitance:	45 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	20/9/25 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 55 dB
Near end unbalance attenuation LCL at 1-100 MHz :	> 40 dB
Delay Skew:	15 ns/100 m
NVP:	75 %



MECHANICAL PROPERTIES

Bending radius:	≥ 20 mm
Repeated bending:	≥ 1000 cycles
Tensile strength:	≤ 63 N
Crush resistance:	≥ 1000 N/10 cm
Impact:	≥ 10 impacts
Temperature range	during installation: 0° C to + 50° C in operation: -20° C to + 60° C

STANDARDS

Wire colour	white /blue red/orange black/green yellow/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 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2, AREI-RGIE Art.104-SA - applies to FRNC/LSOH
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/LSOH
PoE	IEEE 802.3af
EMC	shielded
Cat./Class	Cat 5e / Class D - limit values as specified by IEC 61156-6 and EN 50288-2-2 guaranteed

VERSIONS

Article No.	Dimension n x k [mm²(AWG)]	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
179595	4 x 2 x 0.16 (AWG26)	grey	FR/PVC	5.1	34	23.5	0.11	0.38	1000 m drum
179517	4 x 2 x 0.16 (AWG26)	black	FR/PVC	5.1	34	23.5	0.11	0.38	1000 m drum
179513	4 x 2 x 0.16 (AWG26)	green	FR/PVC	5.1	34	23.5	0.11	0.38	1000 m drum
179514	4 x 2 x 0.16 (AWG26)	yellow	FR/PVC	5.1	34	23.5	0.11	0.38	1000 m drum

CU 5502 4P flex

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



Article No.	Dimension n x k [mm ² (AWG)]	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
179515	4 x 2 x 0.16 (AWG26)	red	FR/PVC	5.1	34	23.5	0.11	0.38	1000 m drum
179516	4 x 2 x 0.16 (AWG26)	blue	FR/PVC	5.1	34	23.5	0.11	0.38	1000 m drum
181101	4 x 2 x 0.16 (AWG26)	grey	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181100	4 x 2 x 0.16 (AWG26)	orange	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181106	4 x 2 x 0.16 (AWG26)	black	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181102	4 x 2 x 0.16 (AWG26)	green	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181103	4 x 2 x 0.16 (AWG26)	yellow	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181104	4 x 2 x 0.16 (AWG26)	red	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181105	4 x 2 x 0.16 (AWG26)	blue	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181107	4 x 2 x 0.16 (AWG26)	purple	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum
181108	4 x 2 x 0.16 (AWG26)	white	FRNC/LS0H	5.1	35	23.5	0.09	0.31	1000 m drum