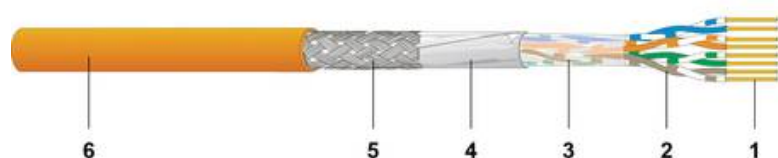


CU 5502 4P

Data cable, SF/UTP, Category 5e, AWG24



- 1 Inner conductor: AWG24
- 2 PE insulated conductor: 1.0 mm Ø, PE Foam Skin
- 3 Polyester foil
- 4 Screen: Alu Polyester foil
- 5 Screen: Tinned braided copper
- 6 Outer sheath: FR/PVC grey RAL 7035, FRNC/LSOH orange RAL 2003



DESCRIPTION

Electrically and mechanically high-quality Cat 5e data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-2-1.

Excellent shielding effect due to overall foil and copper braid.

Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

APPLICATION

Data cable for structured premises cabling.

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
Attenuation [dB/100m]	1.9	3.6	5.6	18.2	29
NEXT [dB]	75	70	65	44	40
PS NEXT [dB]	72	67	62	41	37
ACR-N [dB]	73	66	59	26	11
PS-ACR-N [dB]	70	63	56	23	8
ACR-F [dB]	84	69	63	41	31
PS-ACR-F [dB]	81	66	60	38	28
Return loss [dB]	27	31	31	28	24

These performance data are typical measured values.

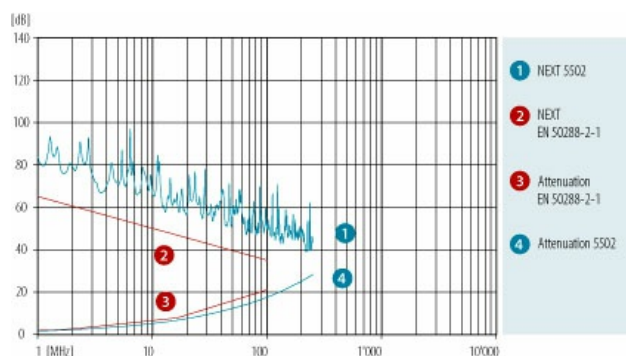
CU 5502 4P

Data cable, SF/UTP, Category 5e, AWG24



ELECTRICAL PROPERTIES

Loop resistance at 20° C:	155 Ω/km
Mutual capacitance:	43 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 30/60/170 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 55 dB
Near end unbalance attenuation LCL:	> 40 dB
Delay Skew:	8 ns/100 m
NVP:	76 %



MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 48 mm
	permanently installed:	≥ 24 mm
Tensile strength:		≤ 91 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/blue white - orange/orange white - green/green white - brown/brown in accordance with IEC 60189 and IEC 60708 (ring marked)
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
Flame spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
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 61156-5 and EN 50288-3-1 guaranteed

VERSIONS

Article No.	Product	Dimension n x n x mm (AWG)	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
181112	CU 5502 4P	4 x 2 x 0.54 (AWG24)	grey	FR/PVC	6.1	45.1	26.0	0.15	0.55	1000 m drum

CU 5502 4P
Data cable, SF/UTP, Category 5e, AWG24



Article No.	Product	Dimension n x n x mm (AWG)	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
181111	CU 5502 4P	4 x 2 x 0.54 (AWG24)	orange	FRNC/LSOH	6.1	45.9	26.0	0.13	0.44	1000 m drum