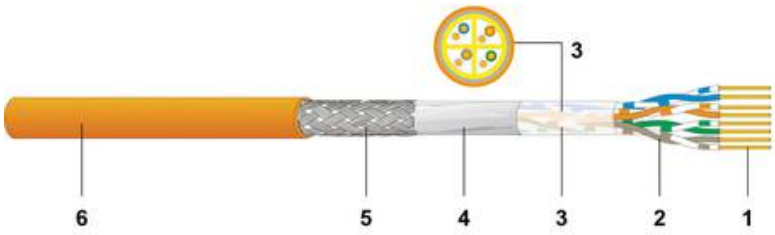
CU 6702 4P

Data cable, SF/UTP, Category 6, AWG24



1 **Inner conductor:** AWG 24 Bare copper wire
2 **PE insulated conductor:** 1.0 mm Ø PE-Foam-Skin
3 **Stabilising element designed for:**
- robustness
- quick and easy termination
- stable electrical performance

4 **Screen:** Alu/PETP foil
5 **Screen**: Tinned braided copper
6 **Outer sheath:** FRNC/LS0H orange RAL 2003

DESCRIPTION

Electrically and mechanically high-quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 und EN 50288-5-1.
Robust cable design with a very high mechanical stability and reliable electrical performance thanks to the stabilising element.
Excellent shielding effect due to overall foil and copper braid.
Simple, fast and reliable terminations thanks to the special cable stripper Abi 62 (Article No. 185640).
Tool is applicable for:
- removal of outer sheath
- removal of stabilising element from pairs

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 E applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable for Power over Ethernet (PoE) / PoE+.

ELECTRICAL CHARACTERISTICS

Category				**5e**	**6**	
Frequency [MHz]	1	4	10	100	250	300
Attenuation [dB/100m]	1.8	3.4	5.1	17.2	26	30
NEXT [dB]	84	75	71	50	43	40
PS NEXT [dB]	81	72	68	47	40	37
ACR-N [dB]	82	72	66	33	17	10
PS-ACR-N [dB]	79	69	63	30	14	7
ACR-F [dB]	90	80	71	42	35	31
PS-ACR-F [dB]	87	77	68	39	32	28
Return loss [dB]	27	30	32	30	25	25
These performance data are typical measured values.						

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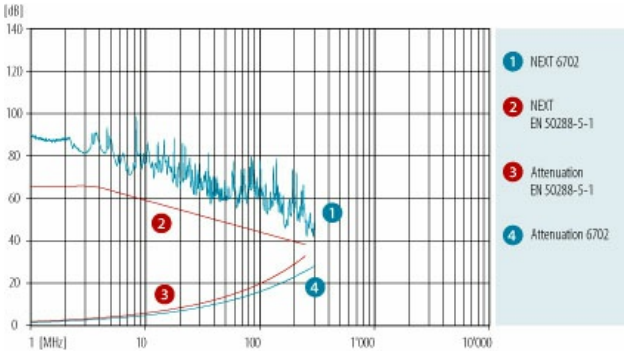
ELECTRICAL PROPERTIES

Loop resistance at 20° C:	157 Ω/km
Mutual capacitance:	50 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 40/80/180 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 65 dB
Near end unbalance attenuation LCL at 1-250 MHz:	> 40 dB
Delay Skew:	25 ns/100 m
NVP:	68 %



MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 58 mm
	permanently installed:	≥ 29 mm
Tensile strength:		≤ 110 N
Crush resistance:		≥ 3000 N/10 cm
Impact:		≥ 30 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
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
PoE	IEEE 802.3af
EMC	shielded
Cat./Class	Cat 6 / Class E - limit values as specified by IEC 61156-6 and EN 50288-6-2 guaranteed

VERSIONS

Article No.	Product	Dimension n x n x mm (AWG)	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
182943	CU 6702 4P	4 x 2 x 0.54 (AWG24)	FRNC/LS0H	7.4	63.7	27.7	0.25	0.89	1000 m drum