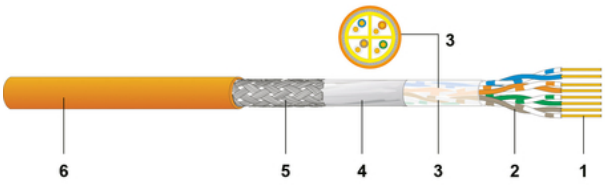
CU 6702 4P

Data cable, SF/UTP, Category 6, AWG24, Euroclass Eca



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

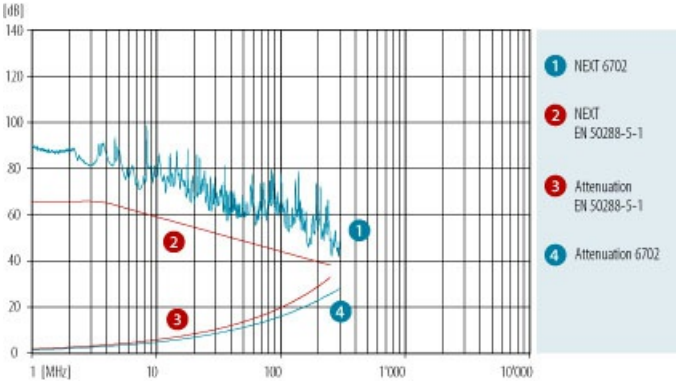
DESCRIPTION

Electrically and mechanically advanced 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+.

GRAPH



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

Category:	Cat.6
Coupling attenuation:	65 dB
Delay Skew:	25 ns/100 m
Impedance at 100 MHz, ±5Ω:	100 Ω
Loop resistance at 20°C:	< 157 Ω/km
Near end unbalance attenuation LCL at 1-600 MHz:	40 dB
NVP %:	68
operating capacity:	50 pF/m
Transfer impedance 1/10/30 MHz:	< 40/80/180 mΩ/m

MECHANICAL PROPERTIES

Minimum bending radius during installation:	58 mm
Minimum bending radius permanently installed:	29 mm
Tensile strength (4P):	110 N
Minimal crush resistance / 10cm:	3,000 N
Minimum number of impacts:	30
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

STANDARDS

Wire colour	white - blue/bluewhite - orange/orangewhite - green/greenwhite - brown/brownin 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 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
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
Segregation class	c
Cat./Class	Cat 6 / Class E - limit values as specified by IEC 61156-6 and EN 50288-6-2 guaranteed

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclass)	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
18294300EK		CU 6702 4P	Eca	4 x 2 x 0.54 (AWG24)	FRNC/LSZH	orange	7.4	64	27.7	0.89 MJ/m	0.25	1000 m drum