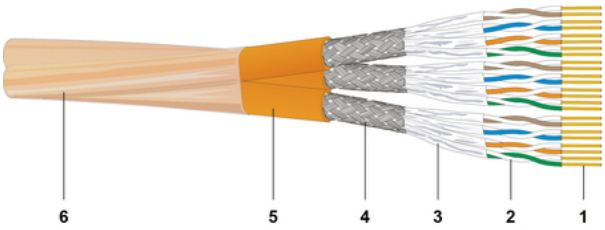
CU 7002 6x4P Breakout Light (BOL)

Data cable, S/FTP, Category 7, AWG23, Euroclass Dca



1 **Inner conductor:** AWG23 Bare copper wire
2 **PE insulated conductor:** 1.4 mm Ø
3 **Screen (pair):** Alu PETP foil
4 **Overall screen**: Tinned braided copper
5 **Single cable sheath:** FRNC/LS0H orange RAL 2003
6 **Outer foil of Breakout Light (BOL) construction:**
Polyester foil, transparent, sealed

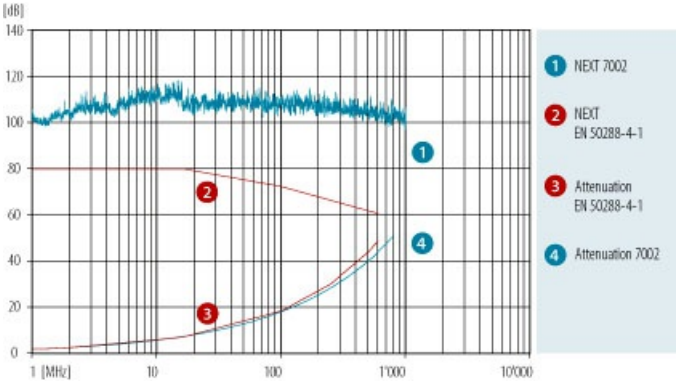
DESCRIPTION

Electrically and mechanically superior quality Cat.7 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1.
Excellent shielding effect due to individually screened pairs and overall copper braid.
Easy handling, small outer diameter and reduced weight thanks to the Breakout Light construction with outer polyester foil instead of an overall cable sheath.
Considerable shorter installation time due to the multi-cable construction.
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 applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801 and for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018.
Applicable for Power over Ethernet (PoE) / PoE+.
Especially suitable for Consolidation Points (e.g. in open-plan offices).

GRAPH



ELECTRICAL CHARACTERISTICS

Category				**5e**	**6**	**6_A**	**7**
Frequency [MHz]	1	4	10	100	250	500	600
Attenuation [dB/100m]	1.9	3.6	5.6	17.9	28	41	46
NEXT [dB]	100	100	100	100	100	92	90
PS NEXT [dB]	97	97	97	97	97	89	87
ACR-N [dB]	98	96	94	82	72	51	44
PS-ACR-N [dB]	95	93	91	79	69	48	41
ACR-F [dB]	98	98	98	78	69	56	45
PS-ACR-F [dB]	95	95	95	75	66	53	42
Return loss [dB]	26	30	33	33	28	26	25

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

Category:	Cat.7
Coupling attenuation:	85 dB
Delay Skew:	12 ns/100 m
Impedance at 100 MHz, ±5Ω:	100 Ω
Loop resistance at 20°C:	< 140 Ω/km
Near end unbalance attenuation LCL at 1-600 MHz:	40 dB
NVP %:	81
operating capacity:	42 pF/m
Transfer impedance 1/10/30 MHz:	< 6/6/10 mΩ/m

SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, 2.5GBase-T, 5GBase-T, 10GBase-T, Fieldbus

MECHANICAL PROPERTIES

Minimum bending radius during installation:	170 mm
Minimum bending radius permanently installed:	85 mm
Tensile strength (4P):	600 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: D_{ca}
Wire colour	white/bluewhite/orangewhite/greenwhite/brownin 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 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
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
PoE	IEEE 802.3at
EMC	shielded
Segregation class	d
Cat./Class	Cat 7 / Class F - limit values as specified by IEC 61156-5 and EN 50288-4-1 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
18848600DZ		CU 7002 6x4P BOL	Dca-s2,d1,a1	6 x (4 x 2 x 0.57 (AWG23))	FRNC/LSZH	orange	21.8	386	186.6	3.42 MJ/m	0.96	by the metre