CU 7002 4P / 2x4P F8

Data cable, S/FTP, Category 7, AWG23, Euroclass B2ca

1 **Inner conductor:** AWG23 Bare copper wire
2 **PE insulated conductor**: 1.4 Ø
3 **Screen (pair):** Alu PETP foil
4 **Overall screen:** Tinned braided copper
5 **Outer sheath:** FRNC/LSOH Orange RAL 2003

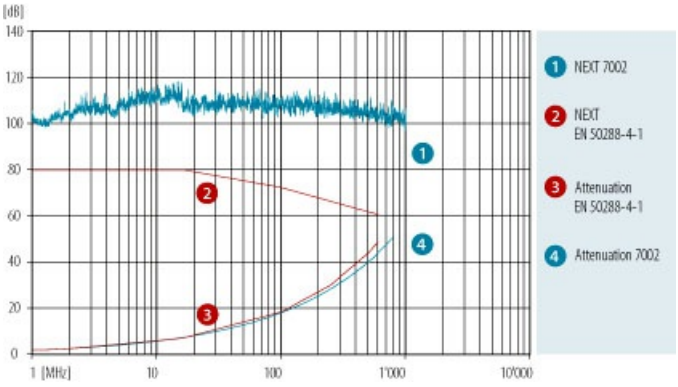
DESCRIPTION

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.
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 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+.

GRAPH



ELECTRICAL CHARACTERISTICS

Category				**5e**	**6**	**6_A**	**7**			
Frequency [MHz]	1	4	10	100	250	500	600	800	862	1000
Attenuation [dB/100m]	1.9	3.6	5.6	17.9	28	41	46	52	54	57
NEXT [dB]	100	100	100	100	100	92	90	84	83	80
PS NEXT [dB]	97	97	97	97	97	89	87	81	80	77
ACR-N [dB]	98	96	94	82	72	51	44	32	29	23
PS-ACR-N [dB]	95	93	91	79	69	48	41	29	26	20
ACR-F [dB]	98	98	98	78	69	56	45	39	37	33
PS-ACR-F [dB]	95	95	95	75	66	53	42	36	34	30
Return loss [dB]	26	30	33	33	28	26	25	23	22	20

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:	60 mm
Minimum bending radius permanently installed:	30 mm
Tensile strength (4P):	110 N
Tensile strength (2x4P):	220 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: $B2_{ca}$
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, 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 802.3at
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
17738800BK		CU 7002 4P	B2ca-s1a,d1,a1	4 x 2 x 0.57 (AWG23)	FRNC/LSZH	orange	7.2	55	31.1	0.57 MJ/m	0.16	1000 m drum
17738800BL		CU 7002 4P	B2ca-s1a,d1,a1	4 x 2 x 0.57 (AWG23)	FRNC/LSZH	orange	7.2	55	31.1	0.57 MJ/m	0.16	500 m drum
17739800BL		CU 7002 2x4P	B2ca-s1a,d1,a1	2 x (4 x 2 x 0.57 (AWG23))	FRNC/LSZH	orange	7.2 x 15.4	110	62.2	1.14 MJ/m	0.32	500 m drum