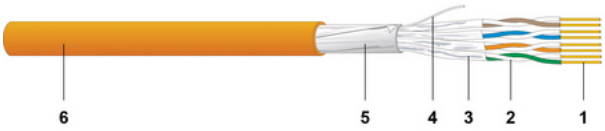
CU 7052 4P / 2x4P F8

Data cable, F/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 **Drain wire:** Tinned copper wire
5 **Overall screen:** Alu PETP foil
6 **Outer sheath:** FRNC/LS0H orange RAL 2003

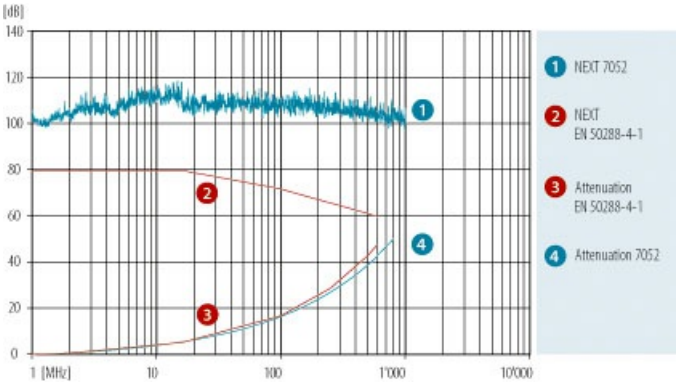
DESCRIPTION

Electrically and mechanically advanced quality Cat.7 data cable - fulfils 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 foil screen.
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	862
Attenuation [dB/100m]	1.9	3.6	5.6	17.9	28	41	46	54
NEXT [dB]	98	98	98	98	98	90	88	81
PS NEXT [dB]	95	95	95	95	95	87	85	78
ACR-N [dB]	96	94	92	80	70	56	42	27
PS-ACR-N [dB]	93	91	89	77	67	53	39	24
ACR-F [dB]	96	96	96	76	68	54	43	35
PS-ACR-F [dB]	93	93	93	73	64	51	40	32
Return loss [dB]	24	28	31	31	26	24	23	20

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

Loop resistance at 20° C:	140 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Coupling attenuation (limit curve of critical state -IEC 61156):	> 85 dB
Near end unbalance attenuation LCL at 1-600 MHz :	> 40 dB
Delay Skew:	12 ns/100 m
NVP:	81 %

SUPPORTED APPLICATIONS

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

MECHANICAL PROPERTIES

		CU 7052 4P	CU 7052 2x4P F8
Bending radius (flat side)	during draw-in:	≥ 60 mm	≥ 60 mm
	permanently installed:	≥ 30 mm	≥ 30 mm
Tensile strength:		≤ 110 N	≤ 220 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

Reaction to fire (Euroclasses)	EN 13501-6:Dca-s2,d1,a1
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	c
Cat./Class	Cat 7 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclasses)	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance short term [N]	Fire load [MJ/m]	Fire load [kWh/m]	PU
18851400DK		CU 7052 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	FRNC/LS0H	orange	7.3	52	21.3	25	100 N	500 N	0.58 MJ/m	0.16	1000 m drum
18851400DL		CU 7052 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	FRNC/LS0H	orange	7.3	52	21.3	25	100 N	500 N	0.58 MJ/m	0.16	500 m drum
18851500DL		CU 7052 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.57 (AWG23))	FRNC/LS0H	orange		104	42.6				1.16 MJ/m	0.32	500 m drum