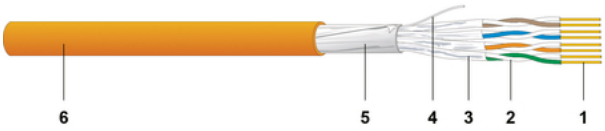
CU 6552 4P / 2x4P F8

Data cable, F/FTP, Category 6_A, AWG 23, Euroclass Dca



1 **Inner conductor:** AWG23 Bare copper wire
2 **PE insulated conductor:** 1.3 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

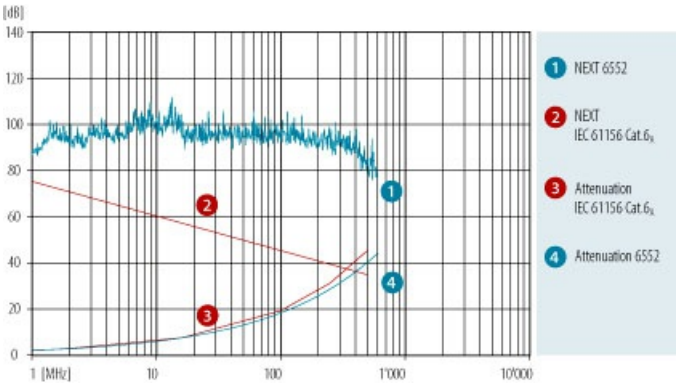
DESCRIPTION

Electrically and mechanically improved quality Cat.6A data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and prEN 50288-10-1.
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 EA applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable for Power over Ethernet (PoE) / PoE+.
Supported Applications: 10Base-T, 100Base-T, 1000Base-T, 2.5GBase-T, 5GBase-T, 10GBase-T, Fieldbus

GRAPH



ELECTRICAL CHARACTERISTICS

Category				**5e**	**6**	**6_A**
Frequency [MHz]	1	4	10	100	250	500
Attenuation [dB/100m]	2.1	3.8	5.9	19	30	43
NEXT [dB]	93	93	93	93	83	75
PS NEXT [dB]	90	90	90	90	80	72
ACR-N [dB]	91	89	87	73	53	32
PS-ACR-N [dB]	88	86	84	70	50	29
ACR-F [dB]	96	96	96	74	56	33
PS-ACR-F [dB]	93	93	93	71	53	30
Return loss [dB]	26	28	30	30	27	21

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

Category:	Cat.6_A
Coupling attenuation:	70 dB
Delay Skew:	5 ns/100 m
Impedance at 100 MHz, ±5Ω:	100 Ω
Loop resistance at 20°C:	< 150 Ω/km
Near end unbalance attenuation LCL at 1-600 MHz:	40 dB
NVP %:	79
operating capacity:	42 pF/m
Transfer impedance 1/10/30 MHz:	< 50/100/200 mΩ/m

MECHANICAL PROPERTIES

Minimum bending radius during installation:	56 mm
Minimum bending radius permanently installed:	28 mm
Tensile strength (4P):	95 N
Tensile strength (2x4P):	190 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 (Euroclasses)	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, 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_A / Class E_A - limit values as specified by IEC 61156-5 and EN 50288-10-1 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]	Fire load [MJ/m]	Fire load [kWh/m]	PU
19145400DK		CU 6552 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LS0H	orange	7	49	20.0	0.52 MJ/m	0.14	1000 m drum
19145400DL		CU 6552 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LS0H	orange	7	49	20.0	0.52 MJ/m	0.14	500 m drum
19145600DL		CU 6552 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.55 (AWG23))	FRNC/LS0H	orange	7.0 x 14.3	98	40.0	1.04 MJ/m	0.28	500 m drum