

CU 6552 4P / 2x4P F8

Data cable, F/FTP, Category 6A, AWG 23, Euroclass D_{ca}



- 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.6_A 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

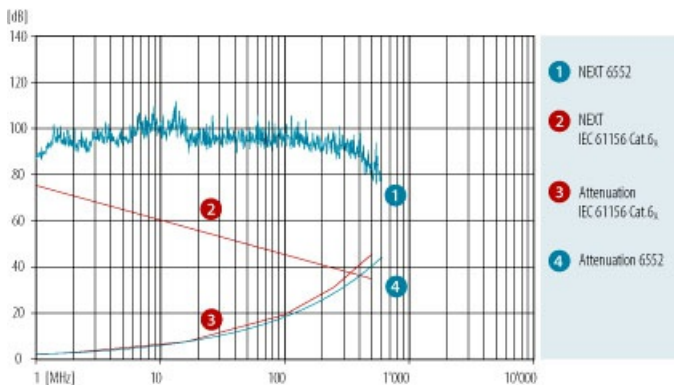
Data cable for structured premises cabling. For the transmission of digital and analogue voice, video and data signals. Suitable for all ICT network applications up to class E_A applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801. Applicable for Power over Ethernet (PoE) / PoE+.

ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	6A
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.

ELECTRICAL PROPERTIES



Loop resistance at 20° C:	150 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 50/100/200 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 70 dB
Near end unbalance attenuation	> 40 dB
LCL at 1/10/100 MHz:	
Delay Skew:	5 ns/100 m
NVP:	79 %

MECHANICAL PROPERTIES

		CU 6552 4P	CU 6552 2x4P F8
Bending radius (flat side)	during draw-in:	≥ 56 mm	≥ 56 mm
	permanently installed:	≥ 28 mm	≥ 28 mm
Tensile strength:		≤ 95 N	≤ 190 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

Wire colour	white/blue white/orange white/green white/brown in 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
Reaction to fire (Euroclasses)	EN 13501-6: D _{ca} -s2,d1,a1
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	Sheath	Sheath Ø [mm]	Sheath colour	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	Dimensions n x p x [mm (AWG)]	PU
191454		CU 6552 4P	FRNC/LS0H	7.0	orange	48.5	20.0	0.52	0.14	4 x 2 x 0.55 (AWG23)	1000 m drum
19145400DK		CU 6652 4P	FRNC/LS0H	7.0	orange	48.5	20.0	0.52	0.14	4 x 2 x 0.55 (AWG23)	1000 m drum
19145400DZ		CU 6552 4P	FRNC/LS0H	7.0	orange	48.5	20.0	0.52	0.14	4 x 2 x 0.55 (AWG23)	by the metre
191456		CU 6552 2x4P F8	FRNC/LS0H	7.0 x 14.3	orange	97.0	40.0	1.04	0.28	2x (4 x 2 x 0.55 AWG23)	500 m drum
19145600DL		CU 6552 2x4P F8	FRNC/LS0H	7.0 x 14.3	orange	97.0	40.0	1.04	0.28	2x (4 x 2 x 0.55 AWG23)	500 m drum