

CU 6552 4P / 2x4P F8

Data cable, F/FTP, Category 6_A, AWG 23, Euroclass B2ca



- 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+.

General Properties

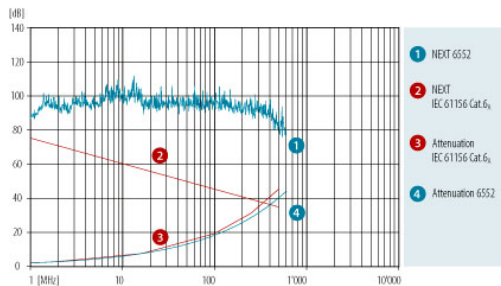
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked)

Electrical properties

Category	Cat.6 _A
Coupling attenuation	70 dB
Delay Skew	5 ns/100 m
EMC	shielded
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
Segregation class	c

Transfer impedance 1/10/30 MHz

< 50/100/200 mΩ/m



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

Mechanical properties

Minimal crush resistance / 10cm	1,000 N
Minimum bending radius during installation	56 mm
Minimum bending radius permanently installed	28 mm
Minimum number of impacts	10
Solid / Flex	Solid wire
Tensile strength (2x4P)	190 N
Tensile strength (4P)	95 N

Standards

Cat./Class	Cat 6 _A / Class E _A - limit values as specified by IEC 61156-5 and EN 50288-10-1 guaranteed
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6
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

Versions

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Weight [kg]	Packing unit
19145400BK	CU 6552 4P	B2ca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	orange	7		20.0	50	0.14		1000 m drum
19145600BL	CU 6552 2x4P	B2ca-s1,d1,a1	2 x (4 x 2 x 0.55 (AWG23))	orange		7.0 x 14.3	40.0	98	0.28		500 m drum