

## CU 6552 4P / 2x4P F8

Data cable, F/FTP, Category 6<sub>A</sub>, AWG 23, Euroclass Dca  
500 MHz



- 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

### General Properties

Field of application	Indoor
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Outer sheath colour	orange
Outer sheath material	FRNC/LSZH

## Electrical properties

Category	Cat.6 <sub>A</sub>
Coupling attenuation	70 dB
Delay Skew	5 ns/100 m
Gbit/s	Up to 10 Gbit/s
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
Shielding	shielded
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 <sub>A</sub>	43	75	72	32	29	33	21

The performance data given are typical measured values.

## Mechanical properties

Solid / Flex	Solid wire
AWG	23
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
Tensile strength (2x4P)	190 N
Tensile strength (4P)	95 N

## Standards

Cat./Class	Cat.6 <sub>A</sub> / Class E <sub>A</sub>
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: D <sub>ca</sub>
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
Cables Standard	ISO/IEC 61156-5, EN 50288-10-1

## Versions

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
19145400DK	CU 6552 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	7	20.0	49	0.14	1000 m drum	40393910030815
19145400DL	CU 6552 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	7	20.0	49	0.14	500 m drum	40393910030808
19145600DL	CU 6552 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.55 (AWG23))	7.0 x 14.3	40.0	98	0.28	500 m drum	40393910030655

Subject to technical modification

As of 2022-08-12 07:38:15