



- 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 Outer sheath: FRNC/LSOH orange RAL 2003



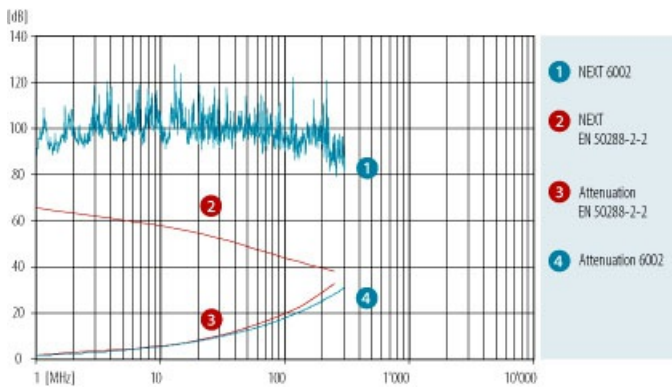
**DESCRIPTION**

Electrically and mechanically advanced quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-5-1. Good shielding effect due to individually screened pairs. 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 applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801. Applicable for Power over Ethernet (PoE) / PoE+.

**GRAPH**



**ELECTRICAL CHARACTERISTICS**

Category	1	4	10	5e	6
Frequency [MHz]				100	250
Attenuation [dB/100m]	2.1	3.8	5.9	19.8	30
NEXT [dB]	93	93	93	93	83
PS NEXT [dB]	90	90	90	90	80
ACR-N [dB]	91	89	87	73	53
PS-ACR-N [dB]	88	86	84	70	50
ACR-F [dB]	96	96	96	74	56
PS-ACR-F [dB]	93	93	93	71	53
Return loss [dB]	26	28	30	30	27

These performance data are typical measured values.

# CU 6002 4P Dca

Data cable, U/FTP, Category 6, AWG23, Euroclass Dca



## 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):	> 55 dB
Near end unbalance attenuation LCL at 1/10/100 MHz:	> 40 dB
Delay Skew:	5 ns/100 m
NVP:	79 %

## SUPPORTED APPLICATIONS

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

## MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 56 mm
	permanently installed:	≥ 28 mm
Tensile strength:		≤ 95 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/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
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 / Class E - limit values as specified by IEC 61156-5 and EN 50288-6-1 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]	Tensile load [N]	Fire load [MJ/m]	Fire load [kWh/m]	PU
182936		CU 6002 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LSOH	orange	6.8	48	20.0	95 N	0.55 MJ/m	0.15	1000 m drum
18293600DK		CU 6002 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LSOH	orange	6.8	48	20.0	95 N	0.55 MJ/m	0.15	1000 m drum
18293600DL		CU 6002 4P	Dca-s2,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LSOH	orange	6.8	48	20.0	95 N	0.55 MJ/m	0.15	500 m drum