



- 1 Inner conductor: AWG24 Bare copper wire
- 2 PE insulated conductor: 1.0 mm Ø, PE Foam Skin
- 3 Drain wire: Tinned copper wire
- 4 Polyester foil
- 5 Overall screen: Alu Polyester foil
- 6 Outer sheath: FRNC/LS0H orange RAL 2003



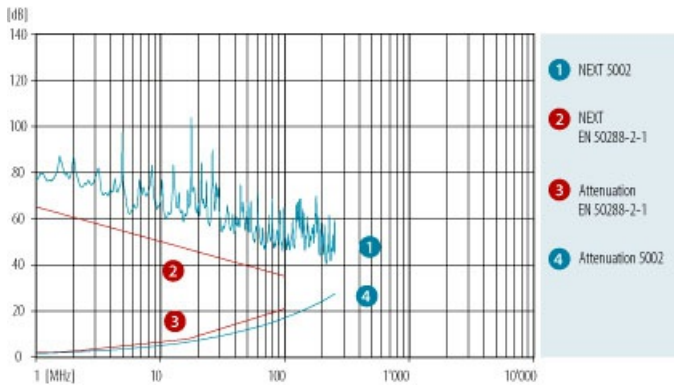
**DESCRIPTION**

Electrically and mechanically advanced quality Cat.5e data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-2-1. Excellent shielding effect due to overall screen foils. 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 D applications (100 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	250
Frequency [MHz]				100	250
Attenuation [dB/100m]	1.9	3.6	5.6	18.2	29
NEXT [dB]	75	70	65	44	40
PS NEXT [dB]	72	67	62	41	37
ACR-N [dB]	73	66	59	26	11
PS-ACR-N [dB]	70	63	56	23	8
ACR-F [dB]	84	69	63	41	31
PS-ACR-F [dB]	81	66	60	38	28
Return loss [dB]	27	31	31	28	24

These performance data are typical measured values.

# CU 5002 4P Dca

Data cable, F/UTP, Category 5e, AWG24, Euroclass Dca



## ELECTRICAL PROPERTIES

Category:	Cat.5e
Coupling attenuation:	40 dB
Delay Skew:	8 ns/100 m
Impedance at 100 MHz, $\pm 5\Omega$ :	100 $\Omega$
Loop resistance at 20°C:	< 155 $\Omega$ /km
Near end unbalance attenuation LCL at 1-600 MHz:	40 dB
NVP %:	76
operating capacity:	43 pF/m
Transfer impedance 1/10/30 MHz:	< 45/90/190 m $\Omega$ /m

## SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, Fieldbus

## MECHANICAL PROPERTIES

Minimum bending radius during installation:	48 mm
Minimum bending radius permanently installed:	24 mm
Tensile strength (4P):	91 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 (Euroclass)	EN 13501-6: D <sub>ca</sub>
Wire colour	white-blue/bluewhite-orange/orangewhite-green/greenwhite-brown/brown(with longitudinal stripes)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 - applies to FRNC/LSOH
PoE	IEEE 802.3af
EMC	shielded
Segregation class	b
Cat./Class	Cat 5e / Class D - limit values as specified by IEC 61156-5 and EN 50288-2-1 guaranteed

## VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclass)	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
18111300DK		CU 5002 4P	Dca-s2,d1,a1	4 x 2 x 0.54 (AWG24)	FRNC/LSZH	orange	6	41	19.5	0.51 MJ/m	0.14	1000 m drum