



- 1 Inner conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.3 mm Ø
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Outer sheath: PE black



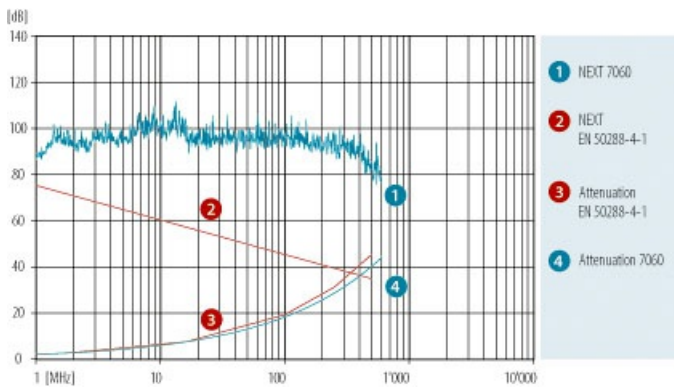
DESCRIPTION

Electrically and mechanically superior quality Cat.6A data cable - exceeds 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 copper braid. Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

APPLICATION

Data cable for outdoor installation. 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+.

GRAPH



ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	6 _A	600
Frequency [MHz]	1	4	10	100	250	500	600
Attenuation [dB/100m]	2.1	3.8	5.9	19.1	30	43	47
NEXT [dB]	93	93	93	93	82	77	75
PS NEXT [dB]	90	90	90	90	79	74	72
ACR-N [dB]	91	89	87	73	52	34	28
PS-ACR-N [dB]	88	86	84	70	49	31	25
ACR-F [dB]	96	96	96	74	61	43	39
PS-ACR-F [dB]	93	93	93	71	58	40	36
Return loss [dB]	26	28	30	30	27	25	24

These performance data are typical measured values.

ELECTRICAL PROPERTIES

Loop resistance at 20° C:	146 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 6/10/20 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 75 dB
Near end unbalance attenuation LCL at 1-600 MHz :	> 40 dB
Delay Skew:	4 ns/100 m
NVP:	80 %

SUPPORTED APPLICATIONS

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


MECHANICAL PROPERTIES

Bending radius	during draw-in:	CU 7060 4P ≥ 65 mm
	permanently installed:	≥ 30 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:Fca
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
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
PoE	IEEE 802.3at
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	Reaction to fire (Euroclasses)	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	PU
19429500FK		CU 7060 4P	Fca	4 x 2 x 0.55 (AWG23)	PE	black	7.3	47	26.4	1000 m drum
19429500FL		CU 7060 4P	Fca	4 x 2 x 0.55 (AWG23)	PE	black	7.3	47	26.4	500 m drum