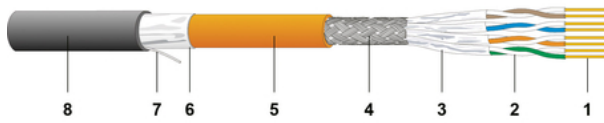


# CU 7002 4P GG-PE

Data cable, S/FTP, Category 7, AWG23, Euroclass Fca with rodent protection and PE cable sheath



- 1 Inner conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.4 mm Ø
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Sheath: FRNC/LS0H orange RAL 2003
- 6 Rodent protection: with glass rovings
- 7 Ripcord
- 8 Outer sheath: PE black



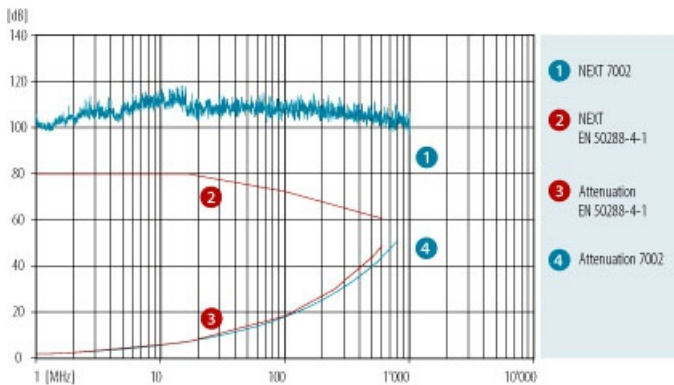
## DESCRIPTION

Applicable for outdoor installation due to rodent protection and PE outer cable sheath with higher UV resistance. Robust cable design with a high mechanical stability. Electrically and mechanically superior quality Cat.7 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1. 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 structured premises and outdoor cabling. With rodent protection and increased UV protection (due to PE outer sheath). For the transmission of digital and analogue voice, video and data signals. Suitable for all ICT network applications up to class F applications (600 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 <sub>A</sub>	7
Frequency [MHz]	1	4	10	100	250	500	600
Attenuation [dB/100m]	1.9	3.6	5.6	17.9	28	41	46
NEXT [dB]	100	100	100	100	100	92	90
PS NEXT [dB]	97	97	97	97	97	89	87
ACR-N [dB]	98	96	94	82	72	51	44
PS-ACR-N [dB]	95	93	91	79	69	48	41
ACR-F [dB]	98	98	98	78	69	56	45
PS-ACR-F [dB]	95	95	95	75	66	53	42
Return loss [dB]	26	30	33	33	28	26	25

These performance data are typical measured values.

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with rodent protection and PE cable sheath



### ELECTRICAL PROPERTIES

Loop resistance at 20° C:	140 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Coupling attenuation (limit curve of critical state -IEC 61156)	> 85 dB
Near end unbalance attenuation LCL at 1-600 MHz :	> 40 dB
Delay Skew:	12 ns/100 m
NVP:	81 %

### SUPPORTED APPLICATIONS

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

### MECHANICAL PROPERTIES

Minimum bending radius during installation:	92 mm
Minimum bending radius permanently installed:	46 mm
Tensile strength (4P):	150 N
Minimal crush resistance / 10cm:	2,000 N
Minimum number of impacts:	20
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

### STANDARDS

Reaction to fire (Euroclasses)	EN 13501-6: F <sub>ca</sub>
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	d
Cat./Class	Cat 7 / Class F - limit values as specified by IEC 61156-5 and EN 50288-4-1 guaranteed

### VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclasses)	Dimensions n x p x 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
19192300FZ		CU 7002 4P	Fca	4 x 2 x 0.57 (AWG23)	FRNC/LS0H- PE	black	11.8	134	31.1	2.69 MJ/m	0.75	by the metre