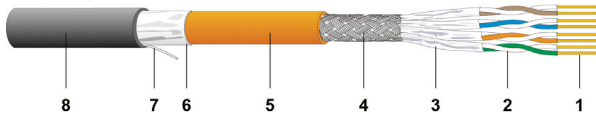


## CU 7002 4P GG-PE

Data cable, S/FTP, Category 7, AWG23, Euroclass Fca

1000 MHz



- 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+ / 4PPoE up to 100W.

### Construction

Outer sheath material	FRNC/LSZH-GG-PE
Outer sheath colour	black

### General properties

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

## Electrical properties

Category	Cat.7
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	140 Ω/km
Operating capacity	42 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	81
Delay skew	12 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Coupling attenuation	85 dB
Segregation class	d

Frequency [MHz]	Category	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		1.9	100	97	98	95	98	26
4		3.6	100	97	96	93	98	30
10		5.6	100	97	94	91	98	33
100	5e	17.9	100	97	82	79	78	33
250	6	28	100	97	72	69	69	28
500	6 <sub>A</sub>	41	92	89	58	55	56	26
600	7	46	90	87	44	41	45	25
800		52	84	81	32	29	39	23
862		54	83	80	29	26	37	22
1,000		57	80	77	23	20	33	20

The performance data given are typical measured values.

## Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	46 mm
Minimal crush resistance / 10cm	2,000 N
Minimum bending radius (during installation)	92 mm
Minimum number of impacts	20

## Standards

Reaction to fire	EN 13501-6
Euroclass	F <sub>ca</sub>
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 SD
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Cables standard	ISO/IEC 61156-5, EN 50288-4-1
Cat./Class	Cat.7 / Class F
PoE	IEEE 802.3bt Type 4 (100W)

## Note

The cables are designed for occasional contact with water, but are not suitable for permanent installation or total immersion in water. The cable jacket is designed to resist water, but should be avoided coming into direct contact with water for a long time.

To prevent water from entering, the cable jacket must remain intact. It is necessary to prevent water from entering the ends of the cable. This also requires a suitable connection system.

When laying directly underground, care must be taken to ensure that no point mechanical loads occur, as the mechanical structure is unsuitable for laying in a gravel bed, for example.

Laying in protective shells made of concrete (cable duct blocks) or steel or in plastic pipes is recommended. Where the cable comes into direct contact with the ground, embedding in a sand bed is recommended.

## 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
19192300FZ	CU 7002 4P	Fca	4 x 2 x 0.57 (AWG23)	11.4	31.1	129.5	0.648	by the metre	40393910029420