

Construction:

- 1. Inner conductor : AWG23 bare copper wire.
- 2. PE isolated 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. Ripcord
- 7. Rodent protection : with glass rovings.
- 8. Outer sheath : PE black.

Technical data and tests:

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

Applications:

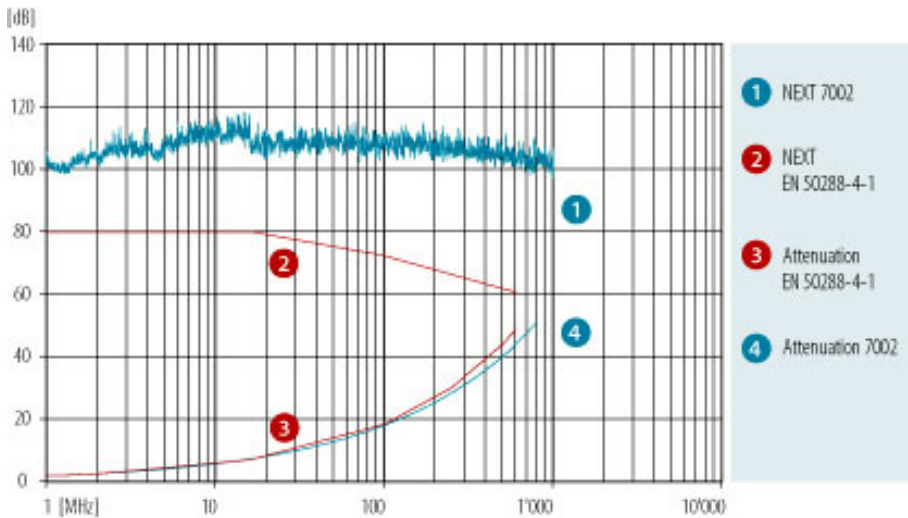
- Data cable for structured premises and outdoor cabling, with rodent protection and increased UV protection (due to PE outer sheath). It is used for the transmission of digital and analogue voice, video and data signals.
- Suitable for all ICT network applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
- Applicable for Power over Ethernet (PoE) / PoE+.
- 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 high-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.



ELECTRICAL CHARACTERISTICS

Category				5e	6	6A	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
P5 NEXT [dB]	97	97	97	97	97	89	87
ACR-N [dB]	98	96	94	82	72	58	44
P5-ACR-N [dB]	95	93	91	79	69	55	41
ACR-F [dB]	98	98	98	78	69	56	45
P5-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.



Mechanical properties:

- Bending radius (flat side): during draw-in: ≥ 92 mm;
permanently installed: ≥ 46 mm.
- Tensile strength : ≤ 150 N.
- Crush resistance : ≥ 1000 N/10 cm ≥ 2000 N/10 cm.
- Impact : ≥ 20 impacts
- Temperature range : during installation : 0° C to $+50^\circ$ C;
in operation : -20° C to $+60^\circ$ C.





Standards:

- LSOH : IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2, AREI-RGIE Art.104-SA.
- PoE : IEEE 802.3at.
- EMC : shielded.
- Cat./Class : Cat 7 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed.
- Smoke density : IEC 61034-1/-2, EN 61034-1/-2 , VDE 0482-1034-1/-2, AREI-RGIE Art.104-5D.
- Wire colour : white/blue white/orange white/green white/brown in accordance with IEC 60189 and IEC 60708.
- Imprint : «cable type» «additional text» «batch number» «meter marks».

DIMENSIONS

Product	Dimension n x n x mm (AWG)	Sheath	Sheath 0 mm	Weight kg/km	Cu kg/km	Fire load kWh/m	Fire load MJ/m	PU
CU 7002 4P GG-PE	4 x 2 x 0.57 (AWG23)	FRNC/LS0H-PE	11.6	141	31.1	0.75	2.69	as required

For any other type of data cable please do not hesitate to contact us.