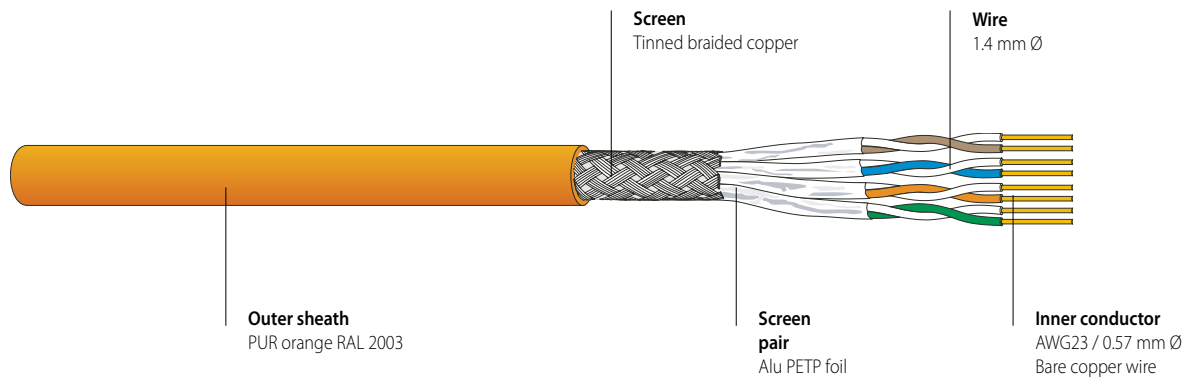


SHIELDED DATA CABLE

Industrial data cable S/FTP Cat.7 AWG23

CU 7002 4P Industrial PUR



PRODUCT INFORMATION



FEATURES

Electrically and mechanically high-quality Cat.7 data cable with PUR sheath - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1.
Compatible with Datwyler IP67 connecting hardware.
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.

APPLICATIONS

Data cable for structured premises cabling - designed for use in indoor and outdoor industrial areas.
Oil resistant.
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+.

VERSIONS

Article No.	Dimension n x n x mm (AWG)	Sheath	Sheath Ø mm	Weight kg/km	Cu weight kg/km	Fire load		PU
						kWh/m	MJ/m	
187689	4 x 2 x 0.57 (AWG23)	PUR ¹⁾	7.9	73.9	31.1	0.19	0.70	1000 m drum

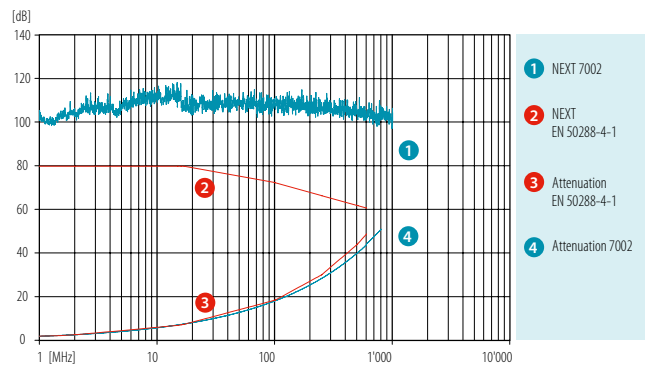
¹⁾ PUR = Polyurethane

ELECTRICAL CHARACTERISTICS

CATEGORY	5e		6	6 _A	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 [dB]	98	96	94	82	72	58	44
PS ACR [dB]	95	93	91	79	69	55	41
ELFEXT [dB]	98	98	98	78	69	56	45
PS ELFEXT [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.

Loop resistance at 20° C:	140 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 6/6/10 mΩ/m
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 %



MECHANICAL CHARACTERISTICS

Bending radius	during draw-in: ≥ 60 mm
	permanently installed: ≥ 30 mm
Tensile strength:	≤ 110 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

GENERAL CHARACTERISTICS

Wire colour code	white/blue white/orange white/green white/brown in accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Zero halogen	IEC 60754-1/-2, EN 50267-2-1/-2-2 (VDE 0482-267-2-1/-2-2)
Flame propagation	IEC 60332-1-2, EN 60332-1-2 (VDE 0482-332-1-2)
Oil-resistant	EN 60811-2-1
Power over Ethernet plus	IEEE 802.3at
EMC	shielded
Cat./Class	better than Cat.7 / Class F