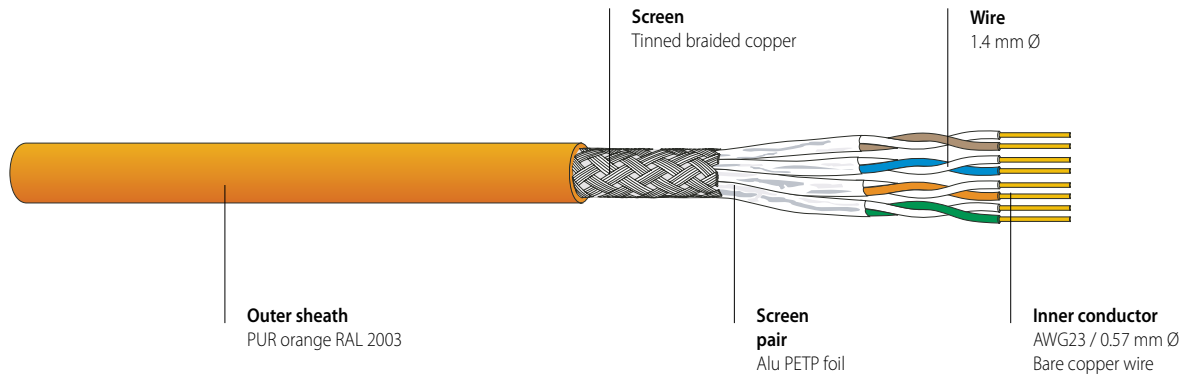


Industrial data cable S/FTP Cat.7 AWG23
 CU 7002 4P Industrial PUR



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	Sheath	Sheath Ø	Weight	Cu weight	Fire load		PU
	n x n x mm (AWG)		mm			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

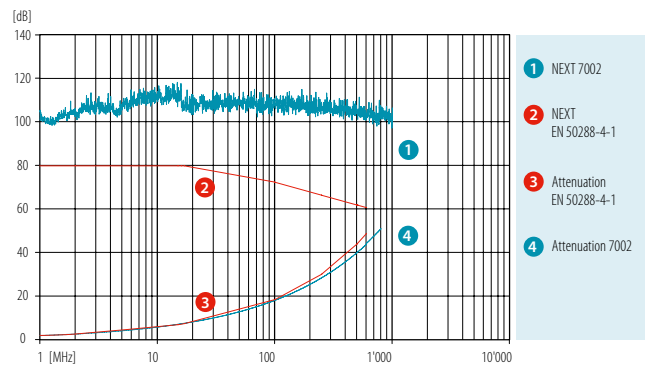
¹⁾ PUR = Polyurethane

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. > 40 dB
 LCL at 1-600 MHz: 12 ns/100 m
 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: -30° 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