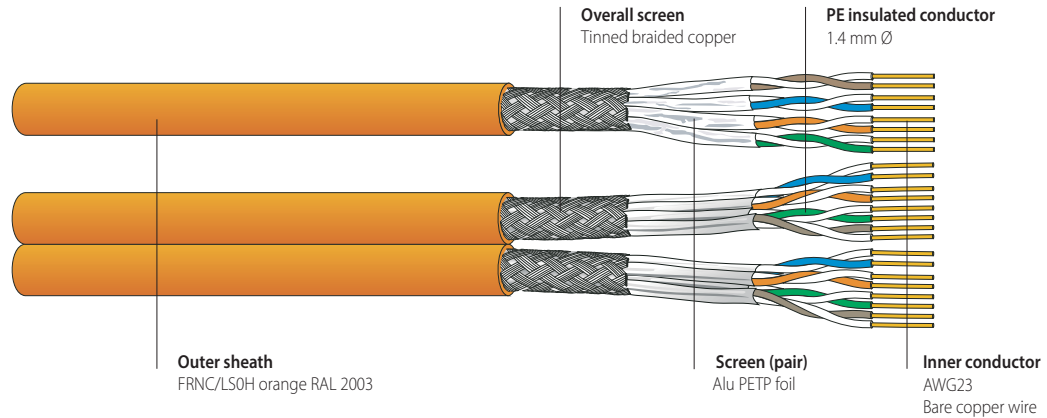




PRODUCT INFORMATION



FEATURES

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.

APPLICATIONS

Data cable for structured premises cabling. 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 and for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018. 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 kWh/m MJ/m		PU
182911	4 x 2 x 0.57 (AWG23)	FRNC/LSOH ¹⁾	7.4	60	31.1	0.16	0.57	1000 m drum
182912	2 x (4 x 2 x 0.57 (AWG23))	FRNC/LSOH ¹⁾	7.4 x 15.6	120	62.2	0.32	1.14	500 m drum

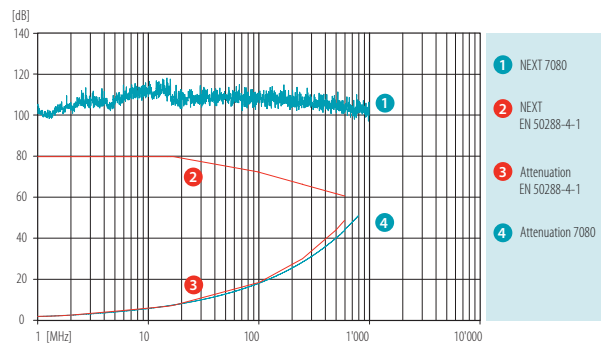
¹⁾ FRNC/LSOH = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

ELECTRICAL CHARACTERISTICS

CATEGORY				5e	6	6 _A	7			
Frequency [MHz]	1	4	10	100	250	500	600	800	862	1000
Attenuation [dB/100m]	1.9	3.6	5.6	17.9	28	41	46	52	54	57
NEXT [dB]	100	100	100	100	100	92	90	84	83	80
PS NEXT [dB]	97	97	97	97	97	89	87	81	80	77
ACR-N [dB]	98	96	94	82	72	58	44	32	29	23
PS-ACR-N [dB]	95	93	91	79	69	55	41	29	26	20
ACR-F [dB]	98	98	98	78	69	56	45	39	37	33
PS-ACR-F [dB]	95	95	95	75	66	53	42	36	34	30
Return loss [dB]	26	30	33	33	28	26	25	23	22	20

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 attenuation LCL at 1-600 MHz: > 40 dB
 Delay Skew: 12 ns/100 m
 NVP: 81 %



MECHANICAL CHARACTERISTICS

Bending radius (flat side)
 Tensile strength:
 Crush resistance:
 Impact:
 Temperature range

during draw-in: ≥ 60 mm
 permanently installed: ≥ 30 mm
 ≤ 110 N
 ≥ 1000 N/10 cm
 ≥ 10 impacts
 during installation: 0° C to + 50° C
 in operation: -20° C to + 60° C

CU 7080 4P

CU 7080 2x4P F8

≥ 60 mm
 ≥ 30 mm
 ≤ 220 N
 ≥ 1000 N/10 cm
 ≥ 10 impacts
 0° C to + 50° C
 -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,
- non corrosive gases
- Flame propagation
- Flame spread
- Smoke density
- Power over Ethernet plus
- EMC
- Segregation class
- Cat./Class

IEC 60754-1/-2, EN 50267-2-1/-2-2 (VDE 0482-267-2-1/-2-2)
 IEC 60332-1-2, EN 60332-1-2 (VDE 0482-332-1-2)
 IEC 60332-3-24, EN 60332-3-24
 IEC 61034-1/-2, EN 61034-1/-2 (VDE 0482-1034-1/-2)
 IEEE 802.3at
 shielded
 d
 Cat 7 / Class F - limit values as specified by IEC 61156-5 and EN 50288-4-1 guaranteed