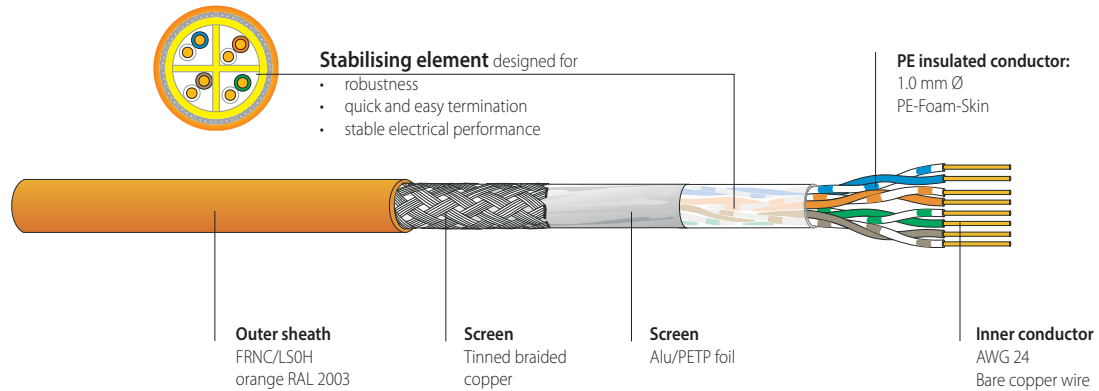




PRODUCT INFORMATION



FEATURES

Electrically and mechanically high-quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 und EN 50288-5-1.

Robust cable design with a very high mechanical stability and reliable electrical performance thanks to the stabilising element.

Excellent shielding effect due to overall foil and copper braid.

Simple, fast and reliable terminations thanks to the special cable stripper Abi 62.



Article No. 185640

Tool is applicable for

1. removal of outer sheath
2. removal of stabilising element from pairs

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 E applications (250 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 kWh/m MJ/m		PU
182943	4 x 2 x 0.54 (AWG24)	FRNC/LSOH ¹⁾	7.4	63.7	27.7	0.25	0.89	1000 m drum

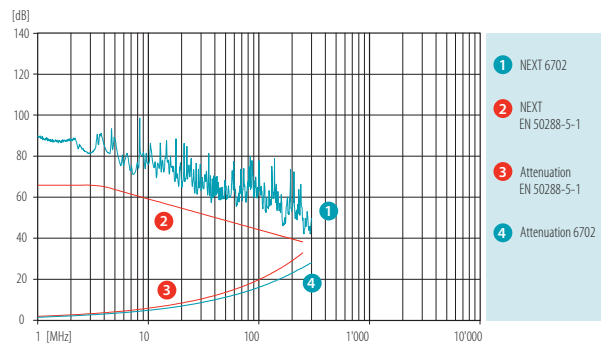
¹⁾ FRNC/LSOH = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

ELECTRICAL CHARACTERISTICS

CATEGORY	5e					6
Frequency [MHz]	1	4	10	100	250	300
Attenuation [dB/100m]	1.8	3.4	5.1	17.2	26	30
NEXT [dB]	84	75	71	50	43	40
PS NEXT [dB]	81	72	68	47	40	37
ACR-N [dB]	82	72	66	33	17	10
PS-ACR-N [dB]	79	69	63	30	14	7
ACR-F [dB]	90	80	71	42	35	31
PS-ACR-F [dB]	87	77	68	39	32	28
Return loss [dB]	27	30	32	30	25	25

These performance data are typical measured values.

Loop resistance at 20° C: 157 Ω/km
 Mutual capacitance: 50 pF/m
 Impedance at 100 MHz: 100 Ω ±5 Ω
 Transfer impedance at 1/10/30 MHz: < 40/80/180 mΩ/m
 Coupling attenuation (limit curve of critical state - IEC 61156): > 65 dB
 Near end unbalance attenuation LCL at 1-250 MHz: > 40 dB
 Delay Skew: 25 ns/100 m
 NVP: 68 %



MECHANICAL CHARACTERISTICS

Bending radius	during draw-in: ≥ 58 mm
Tensile strength:	permanently installed: ≥ 29 mm
Crush resistance:	≤ 110 N
Impact:	≥ 3000 N/10 cm
Temperature range	during installation: ≥ 30 impacts
	in operation: 0° C to + 50° C
	-20° C to + 60° C

GENERAL CHARACTERISTICS

Wire colour code	white - blue/blue white - orange/orange white - green/green white - brown/brown in accordance with IEC 60189 and IEC 60708 (ring marked)
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Zero halogen, non corrosive gases Flame propagation Flame spread Smoke density Power over Ethernet 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 802.3af shielded c Cat 6 / Class E - limit values as specified by IEC 61156-5v and EN 50288-5-1 guaranteed