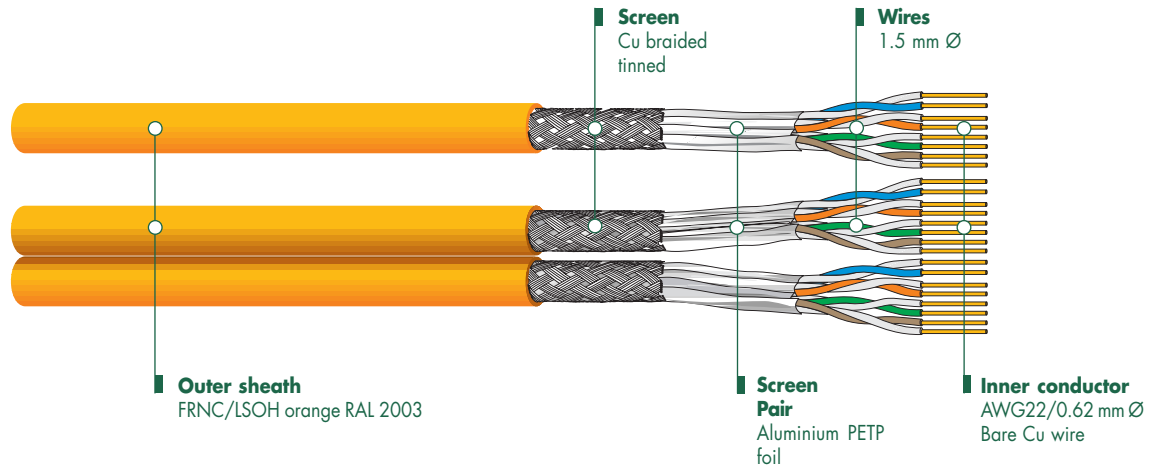




Uninet 7702 4P / 2x4P F8

S-STP Data cable for structured premises cabling

Dätwyler



Product information

Features

Electrically and mechanically outstanding Cat. 7 data cable - satisfies highest demands! Excellent screen effect, due to pair and tinned copper braid. Compatible with all current connecting hardware to EN 50173 and ISO/IEC 11801. Guaranteed limit values Cat. 7: ISO/IEC 11801, EN 50173 and EN 50288-4-1.

Applications

Data cable for structured premises cabling. For transmission of digital and analogue voice, data and video signals. Especially suitable to all Class F applications. ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000 Base-T, Token Ring 4/16 Mbit/s, TP-PMD/TP-DDI 125 Mbit/s, ATM 155 Mbit/s.

Versions

Article no.	Dimensions n x n x mm	Type	Sheath	Sheath Ø mm	Weight kg/km	CU no. kg/km	Burning load kWh/m	MJ/m	Packaging
177 400	4 x 2 x 0.62 (AWG22)	HF-4942-U	FRNC/LSOH ¹⁾	7.8	65.1	34.9	0.18	0.65	1000m Drum
177 390	2 x (4 x 2 x 0.62) (AWG22)	HF-4947-U	FRNC/LSOH ¹⁾	7.8 x 16.8	137.1	69.8	0.36	1.30	on request

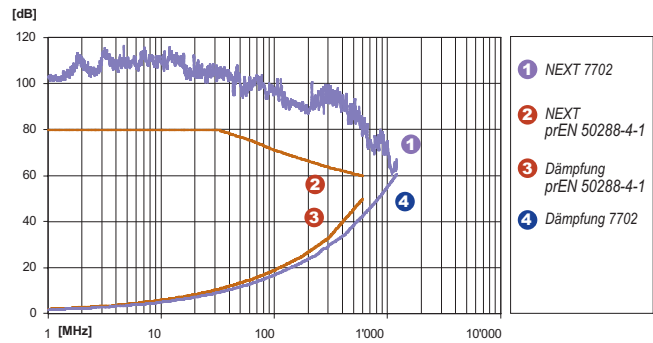
¹⁾ FRNC/LSOH = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

Technical changes reserved.

Technical Data:

Electrical properties

Loop resistance at 20°C: 118 Ω/km
 Mutual capacitance: 44 pF/m
 Impedance Z₀: 100 Ω±15Ω
 Transfer impedance at 1/10/30 MHz: <5/5/8 mΩ/m
 Near end unbalance att. LCL at 1/10/100 MHz: > 40 dB
 Delay skew: 2 ns/100m
 NVP: 81 %



Frequency [MHz]	1	4	10	16	20	31.25	62.5	100	155	300	600	800	1200
Attenuation [dB/100m]	1.7	3.4	5.3	6.6	7.4	9.3	13.5	16.9	23.0	30	42	48	62
NEXT [dB]	95	95	95	95	95	95	95	95	90	85	80	75	64
PS NEXT [dB]	93	93	93	93	93	93	93	93	88	83	78	73	62
ACR [dB]	93	92	90	88	88	86	82	78	67	55	38	27	2
PS ACR [dB]	91	90	88	86	86	84	80	76	65	53	36	25	-
ELFEXT [dB]	98	98	98	96	94	90	84	78	74	64	45	36	24
PS ELFEXT [dB]	96	96	96	94	92	88	82	76	72	62	43	34	22
Return loss [dB]	26	30	33	33	33	33	33	33	30	27	25	24	23

These performance data are typical measured values.

Mechanical properties

	7702 4P	7702 2x4P F8
Bending radius (over flat side)	- during draw-in ≥ 64 mm	≥ 64 mm
	- permanently installed ≥ 32 mm	≥ 32 mm
Tensile strength	≤ 120 N	≤ 240 N
Crush resistance	≥ 1000 N/10 cm	≥ 1000 N/10 cm
Impact resistance	≥ 10 impacts	≥ 10 impacts
Temperature range	- during installation 0°C to + 50°C	0°C to +50°C
	- in operation -20°C to + 60°C	-20°C to +60°C

Environmental conditions

Halogen content	accordance to IEC 60754-2
Smoke density	accordance to IEC 61034
Burning behaviour	accordance to IEC 60332-1 and IEC 60332-3

General properties

Wire colour code	white/blue white/orange white/green white/brown accordance to IEC 189 and IEC 708
Imprint	DAETWYLER UNINET 7702 4P AWG 22 FRNC/LSOH (+batch no. and meter marks) or DAETWYLER UNINET 7702 2X4P AWG 22 FRNC/LSOH (+ batch no. and meter marks)

Halogen content, No corrosive gas emissions	(DIN-VDE 0472-813) New: DIN VDE 0482-267, EN 50267 (CENELEC HD 602), IEC 60754-2
Self extinguishing	(DIN-VDE 0472-804) New: DIN VDE 0482-265, EN 50265 (CENELEC HD 405.1), IEC 60332-1
Low fire propagation	DIN VDE 0472-804/Test class C, CENELEC HD 405.3, IEC 60332-3 cat. C
Minimum smoke production	(DIN-VDE 0472-816) New: DIN VDE 0482-268, EN 50268 (CENELEC HD 606), IEC 61034
EMI	shielded
Category/class	better than Cat. 7, Class F