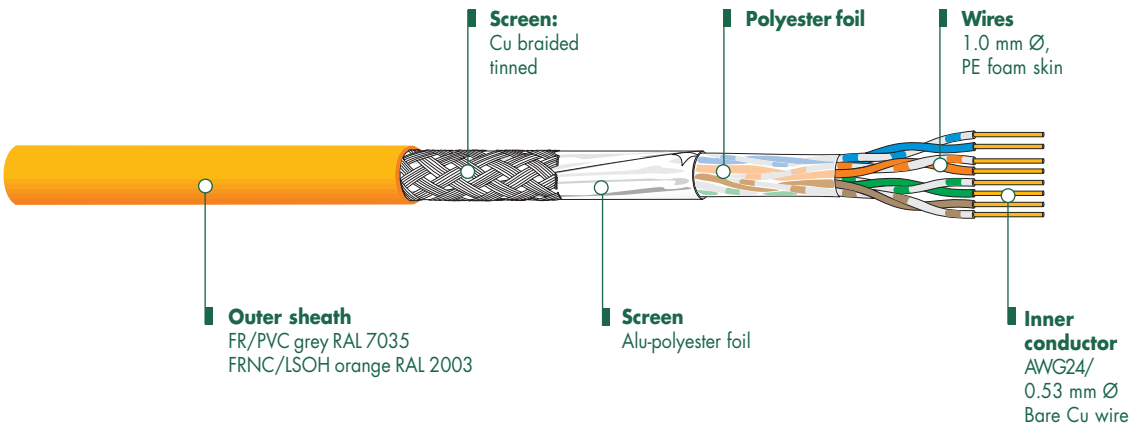
Uninet 5502 4P

S-FTP Data cable for structured premises cabling

Dätwyler



Product information

Features

Electrically and mechanically high-quality Cat 5/Cat. 5e data cable - satisfies highest demands!
Excellent screen effect, due to screen foil and tinned copper braid.
Compatible with all current connecting hardware to EN 50173 and ISO/IEC 11801.
Guaranteed limit values Cat. 5: ISO/IEC 11801 & EN 50173, EN 50288-2-1 and Cat. 5e: ANSI/TIA/EIA-568-A-5.

Applications

Data cable for structured premises cabling.
For transmission of digital and analogue voice, data and video signals.
Especially suitable to all Class D 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	Type	Sheath	Sheath Ø	Weight	CU no.	Burning load		Packaging
	n x n x mm			mm	kg/km	kg/km	kWh/m	MJ/m	
181 112	4 x 2 x 0.53 (AWG24)	HF-4249-U	FR/PVC [1]	6.1	45.1	26.0	0.151	0.545	1000m Drum
181 111	4 x 2 x 0.53 (AWG24)	HF-4248-U	FRNC/LSOH [2]	6.1	45.9	26.0	0.121	0.436	1000m Drum

[1] FR/PVC = Flame Retardant/Polyvinylchloride;
[2] FRNC/LSOH = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

Technical changes reserved.

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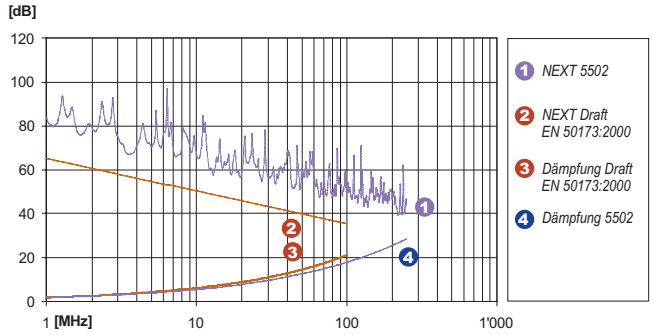
S-FTP Data Cable for Structured Premises Cabling

uninet® Communications Technology

Technical Data:

Electrical properties

Loop resistance at 20°C:	160	Ω/km
Mutual capacitance:	42	pF/m
Impedance Z_0:	100	Ω±15 Ω
Transfer impedance at 1/10/30 MHz	< 30/60/170	mΩ/m
Near end unbalance att. LCL:	> 40	dB
Delay skew:	9	ns/100m
NVP:	76	%



Frequency [MHz]	1	4	10	16	20	31.25	62.5	100	155	200	250
Attenuation [dB/100m]	1.9	3.6	5.6	7.1	8.1	10.1	14.5	18.2	22.6	25.7	29
NEXT [dB]	75	70	65	63	59	52	47	44	43	41	40
PS NEXT [dB]	73	68	63	61	57	50	45	42	41	39	38
ACR [dB]	73.1	66.4	59.4	55.9	50.9	41.9	32.5	25.8	20.4	15.3	11
PS ACR [dB]	71.1	64.4	57.4	53.9	48.9	39.9	30.5	23.8	18.4	13.3	9
ELFEXT [dB]	84	69	63	60	55	51	47	41	38	36	31
PS ELFEXT [dB]	82	67	61	58	53	49	45	39	37	34	29
Return loss [dB]	27	31	31	31	31	30	28	28	27	26	24

These performance data are typical measured values.

Mechanical properties

Bending radius	- during draw-in	≥ 48 mm
	- permanently installed	≥ 24 mm
Tensile strength		≤ 91 N
Crush resistance		≥ 1000 N/10 cm
Impact resistance		≥ 10 impacts
Temperature range	- during installation	0°C to + 50°C
	- in operation	-20°C to + 60°C

Environmental conditions

Halogen content	FRNC/LSOH version halogen content accordance to IEC 60754-2
Smoke density	accordance to IEC 61034
Burning behaviour	FR/PVC accordance to IEC 60332-1
	FRNC/LSOH accordance to IEC 60332-1 and IEC 60332-3

General properties

Wire colour code	white - blue/blue white - orange/orange white - green/green white - brown/brown (ring marked) accordance to IEC 189 and IEC 708
Imprint	DAETWYLER UNINET 5502 4P FR/PVC (+batch no. and meter marks) or DAETWYLER UNINET 5502 4P 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 (for FRNC/LSOH)
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 (for FRNC/LSOH)
Minimum smoke production	(DIN-VDE 0472-816) New: DIN VDE 0482-268, EN 50268 (CENELEC HD 606), IEC 61034 (for FRNC/LSOH)
EMI	shielded
Category/class	better than Cat. 5, class D