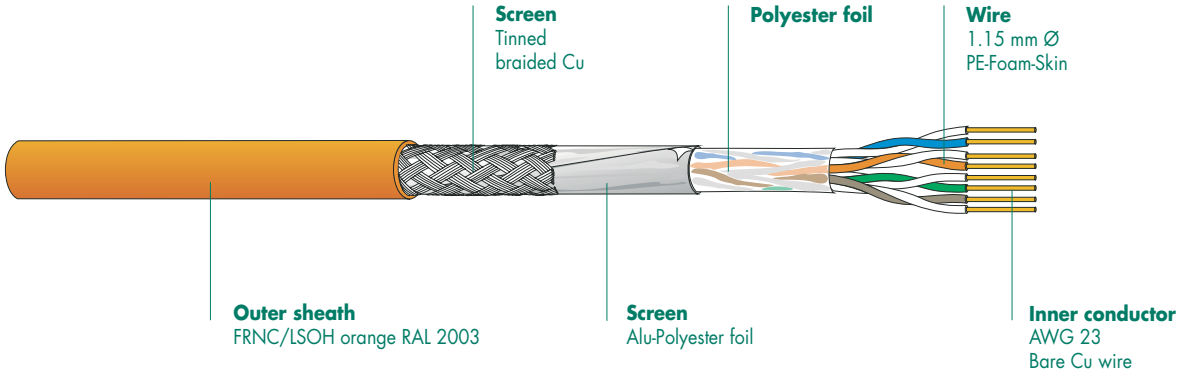
Data cable SF/UTP Cat.5e AWG23

uninet® 5602 4P

Dätwyler Cables



Product information

Features

Electrically and mechanically high-quality Cat 5e cable satisfying the highest demands!
Excellent screen effect thanks to foil and braid.
Compatible with all current connecting hardware to EN 50173-1, ISO/IEC 11801:2002 and Cat 5e: ANSI/TIA/EIA 568-B

Applications

Data cable for structured premises cabling. For the transmission the transmission of digital and analogue signals, voice, video and data applications.
Especially suitable for 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

Aticle No.	Dimension	Type	Sheath	Sheath Ø	Weight	Cu weight	Fire load		PU
	n x n x mm (AWG)			mm	kg/km	kg/km	kWh/m	MJ/m	
182 937	2 x 2 x 0,60 (AWG23)	HF-4324-U	FR/PVC [1]	5,8	38	21,1	0,13	0,46	1000m Drum
182 938	2 x 2 x 0,60 (AWG23)	HF-4323-U	FRNC/LSOH [2]	5,8	38	21,1	0,10	0,37	1000m Drum
182 939	4 x 2 x 0,60 (AWG23)	HF-4322-U	FR/PVC [1]	6,8	55	37,5	0,18	0,63	1000m Drum
182 940	4 x 2 x 0,60 (AWG23)	HF-4321-U	FRNC/LSOH [2]	6,8	55	37,5	0,14	0,50	1000m Drum

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

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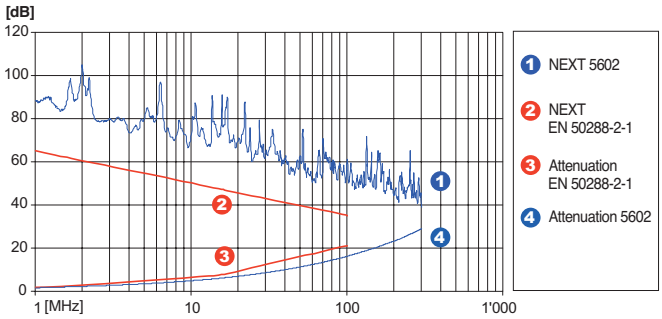
Electrical Characteristics

Loop resistance at 20°C:	125	Ω/km
Mutual capacitance:	44	pF/m
Impedance at 100 MHz:	100	Ω ±5 Ω
Transfer impedance at 1/10/30 MHz	6/8/12	mΩ/m
Near end unbalance att. LCL:	> 40	dB
Delay Skew:	15	ns/100m
NVP:	76	%



Category				5e		
Frequency [MHz]	1	4	10	100	250	300
Attenuation [dB/100m]	1,8	3,0	4,8	17,0	26	29
NEXT [dB]	77	72	67	46	42	40
PS NEXT [dB]	74	69	64	43	39	37
ACR [dB]	75	69	62	29	16	11
PS ACR [dB]	72	66	59	26	13	8
ELFEXT [dB]	84	69	63	41	31	29
PS ELFEXT [dB]	81	66	60	38	28	26
Return loss [dB]	27	31	31	28	24	22

These performance data are typical measured values.

Mechanical Characteristics

Bending radius	- during draw-in	≥ 56 mm
	- permanently installed	≥ 28 mm
Tensile strength		≤ 113 N
Crush resistance		≥ 1000 N/10 cm
Impact		≥ 10 Impacts
Temperature range	- during installation	0°C to + 50°C
	- in operation	-20°C to + 60°C

Environmental conditions

Zero halogen	according to IEC 60754-2
Smoke density	according to IEC 61034
Burning characteristics	FRNC/LSOH according to IEC 60332-1 and IEC 60332-3-24 FR/PVC according to IEC 60332-1

General Characteristics

Wire colour code	4P	2P
	white/blue	white/blue
	white/orange	white/orange
	white/green	
	white/brown	
	according to IEC 189 and IEC 708	
Printing	DAETWYLER UNINET 5602 4P FRNC/LSOH (+Batch number+meter marks)	
Zero halogen non corrosive gases	IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2 (acc. to FRNC/LSOH)	
Flame retardant	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2	
Fire resistant (no flame propagation)	IEC 60332-3-24, EN 50266-2-4 Cat. C, VDE 0482-266-2-4 Cat. C (acc.to FRNC/LSOH)	
Minimum smoke emission	IEC 61034-1/-2, EN 61034-1/-2 (EN 50268-1/-2), VDE 0482-1034-1/-2 (VDE 0482-268)-1/-2) (acc. to FRNC/LSOH)	
EMC	screened	
Cat./Class	better than Cat.5e, Class D	