



CARATTERISTICHE GENERALI

Cavi dati schermati S/FTP cat. 7 4 coppie twistate 100 ohm con conduttori in rame rosso sezione 23 AWG ($\geq \varnothing 0.56$ mm) completi di isolamento poliolefinico adatti alla realizzazione del cablaggio strutturato per la trasmissione analogica e digitale di segnali voce e dati in classe F.

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
IEEE 802.3af-2002: POE; IEEE 802.3at: POE+
Confirming to European regulation "CPR" EN 50575

Standards

ISO/IEC 11801 2nd ed.; EN 50173-1
IEC 61156-5 2nd ed.; EN 50288-4-1

Fire rating

LSZH

Technical Data

Cable designation	S/FTP Cat.7 1000MHz 4PxAWG23
Packaging	Drum 500 m
Outer diameter	Nominal 7.40 mm
Weight	54 kg / km
Thermal load	626 MJ / km
Segregation class	D
Tensile force	80 N

Mechanical Properties

Bending radius	≥ 30 mm during operation (without load) ≥ 60 mm during installation (with load)
Temperature range	During operation -20°C...+ 60°C During installation 0°C...+ 50°C

Electrical Properties (at 20°C ± 5°C)

DC loop resistance		≤ 14.6 Ω / 100 m
Resistance unbalance		≤ 2 %
Test voltage	DC, 1 min, core/core	1000 V
Insulation resistance	500 V	≥ 5000 MΩ * km
Capacitance		50 pF / m max.
Capacitance unbalance		≤ 1600 pF / km
Mean characteristic impedance		100 ± 5 Ω
Nominal velocity of propagation		Approx. 78 %
Propagation delay	At 1 MHz	≤ 538 ns / 100 m
Delay skew		≤ 40 ns / 100 m
Coupling attenuation		≥ 80 dB Type 1b
Transfer impedance	At 1 MHz	≤ 10 mΩ / m Grade 1
	At 10 MHz	≤ 10 mΩ / m
	At 100 MHz	≤ 30 mΩ / m
Balance TCL	At 1 MHz	≥ 50dB Level 2
	At 10 MHz	≥ 40 dB
	At 100 MHz	≥ 30 dB

TABELLA CODICI

Codice Articolo	Descrizione	versione	schermatura	guaina	Ø guaina	Imballo
RSL7.0500	4X2X0.56 AWG 23/1	S/FTP	Nastro AL/PES singole coppie + treccia in rame	LSZH	7,6mm	Bobina 500 mt

CARATTERISTICHE TRASMISSIVE

F (Mhz)	Attenuation (dB/100 m)		NEXT (dB)		PS-NEXT (dB)		ACR-F ¹⁾ (dB100 m)		PS-ACR-F ¹⁾ (dB100 m)		Return loss (dB)	
	Max	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ
4	3.6	3.6	78	95	75	92	78	85	75	82	23	26
10	5.7	5.5	78	95	75	92	74	85	71	82	25	26
20	8.1	7.9	78	95	75	92	68	84	65	81	25	26
62.5	14.5	14.5	76	95	72	92	58	82	55	79	21.5	26
100	18.5	18.5	73	95	69	92	54	78	51	75	20.1	24
250	30.2	29.6	67	88	63	85	46	70	43	67	17.3	22
500	44.1	42.9	62	84	62	81	40	56	37	53	17.3	21
600	48.9	47.6	61	82	58	79	38	55	35	52	17.3	19
1000	-	63.8	-	78	-	75	-	53	-	50	-	18

1) ACR-F was formerly known as ELFEXT.