

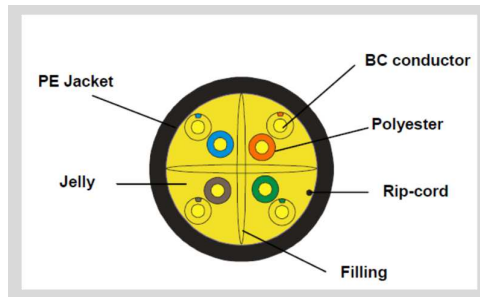
R&M U/UTP Cat.6 250 MHz Jelly Filled PE Sheath

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R&M U/UTP Cat.6 250MHz 4PxAWG23LDPE ISO/IEC 11801 ANSI/TIA-568-C.2 U<batch no.><dd/mm/yy><meter> m

Cable reference	Part number	R795863
	Source code	LZ

Cable construction	Conductor	Bare solid copper wire AWG23 ($\geq \varnothing 0.57 \pm 0.005$ mm)	
	Insulation	HDPE $\leq \varnothing 1.09 \pm 0.03$ mm (Nom.)	
	Twisting	2 wires to the pair	
	Cable lay up	4 paires to the core	
	Sheath	LDPE, black	



Application Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards ISO/IEC 11801 2nd ed.; ANSI/TIA 568C.2

Technical Data	Cable designation	U/UTP Cat.6 250MHz 4PxAWG23	
	Packaging	Drum 500 m	
	Outer diameter	Nominal 6.8 ± 0.05 mm	
	Tensile strength	≥ 10 Mpa	

Mechanical Properties	Bending radius	≥ 60 mm	
	Temperature range	During operation	-40°C...+ 80°C
		During installation	-30°C...+ 70°C

Electrical Properties
(at 20°C ± 5°C)

DC loop resistance	≤ 9.38 Ω / 100 m
Resistance unbalance	≤ 5 %
Mean characteristic impedance	100 ± 15 Ω
Nominal velocity of propagation	69%
Delay skew	≤ 45 ns / 100 m

Typical transmission characteristics (at 20°C)

f (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS-NEXT (dB)	ACR-F ¹⁾ (dB/100 m)	PS-ACR-F ¹⁾ (dB/100 m)	Return loss (dB)
4	3.7	65.3	63.3	56.0	53.0	23.0
10	5.9	59.3	57.3	48.0	45.0	25.0
20	8.4	54.8	52.8	42.0	39.0	25.0
62.5	15.3	47.4	45.4	32.1	29.1	21.5
100	19.8	44.3	42.3	28.0	25.0	20.1
200	28.9	39.8	37.8	22.0	19.0	18.0
250	32.8	38.3	36.3	20.0	17.0	17.3

1) ACR-F was formerly known as ELFEXT.

**Product is to be used in duct and conduit installations only.
Not to be used in aerial or direct burial applications.**