

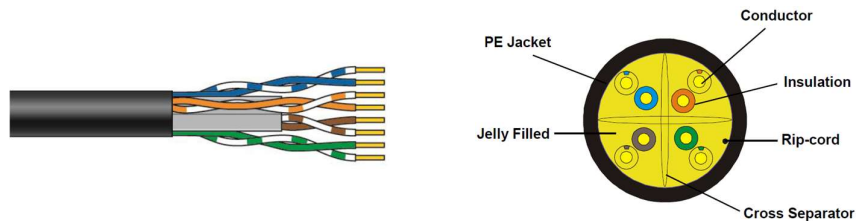
# R&M U/UTP Cat.6A 500 MHz Jelly Filled LDPE

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R&M U/UTP Cat.6A 500MHz 4PxAWG23 LDPE ISO/IEC 11801 ANSI/TIA-568-C.2 U batch no. ><dd/mm/yy><meter> m

<b>Cable reference</b>	<b>Part number</b>	R937774
	<b>Source code</b>	701264

<b>Cable construction</b>	<b>Conductor</b>	Bare solid copper wire AWG23 ( $\geq \varnothing 0.565 \pm 0.005$ mm)	
	<b>Insulation</b>	HDPE $\leq \varnothing 1.12 \pm 0.08$ mm	
	<b>Twisting</b>	2 wires to the pair	
	<b>Cable lay up</b>	4 pairs to the core	
	<b>Sheath</b>	LDPE, black	



<b>Application</b>	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+ IEEE802.3bt 4PPoE

<b>Standards</b>	ISO/IEC 11801 2nd ed.; EN 50173-1; ANSI/TIA-568.2
	IEC 61156-5 2nd ed; EN50399; IEC60754.2; EN50174

<b>Technical Data</b>	<b>Cable designation</b>	U/UTP Cat.6A 500 MHz 4PxAWG23 Jelly Filled PE	
	<b>Packaging</b>	Box 305 m	
	<b>Outer diameter</b>	Nominal 7.1 $\pm 0.5$ mm	
	<b>Temperature range</b>	During operation	- 20°C...+ 70°C
		Storage	- 40°C...+ 60°C

<b>Electrical Properties</b>	<b>DC loop resistance</b>	9.5 $\Omega$ / 100 m	
	<b>DC Conductor Resistance</b>	max. 5	
<b>(at 20°C <math>\pm</math> 5°C)</b>	<b>Unbalance (%)</b>		
	<b>Mean characteristic impedance</b>	1-250MHz	100 $\pm$ 15 $\Omega$
	<b>Delay skew</b>	1-250MHz	$\leq$ 45 ns/100m

**Typical transmission characteristics  $\leq$ 85m (at 20°C)**

<b>f</b> (MHz)	<b>Attenuation</b> (dB/100 m)	<b>NEXT</b> (dB)	<b>PS-NEXT</b> (dB)	<b>ACR-F <sup>1)</sup></b> (dB/100 m)	<b>PS-ACR-F <sup>1)</sup></b> (dB/100 m)	<b>Return loss</b> (dB)
1.00	3.0	65.0	62.0	64.2	61.2	19.1
4.00	3.5	64.1	61.8	52.1	52.1	21.0
8.00	5.0	59.4	57.0	46.1	46.0	21.0
10.00	5.5	57.8	55.5	44.2	44.2	21.0
16.00	7.0	54.6	52.2	40.1	40.1	20.0
20.00	7.9	53.1	50.7	38.2	38.2	19.5
25.00	8.9	51.5	49.1	36.2	36.2	19.0
31.25	10.0	50.0	47.5	34.3	34.3	18.5
62.50	14.4	45.1	42.7	28.3	28.3	16.0
100.00	18.6	41.8	39.3	24.2	24.2	14.0
200.00	27.4	36.9	34.3	18.2	18.2	11.0
250.00	31.1	35.3	32.7	16.2	16.2	10.0
400.00	38.4	29.9	27.1	12.1	12.1	8.0
500.00	43.8	26.7	23.8	10.2	10.2	8.0

1) ACR-F was formerly known as ELFEXT