R&M U/UTP Cat.6 250 MHz PVC

14.12.2018 / V1.0 / Mn

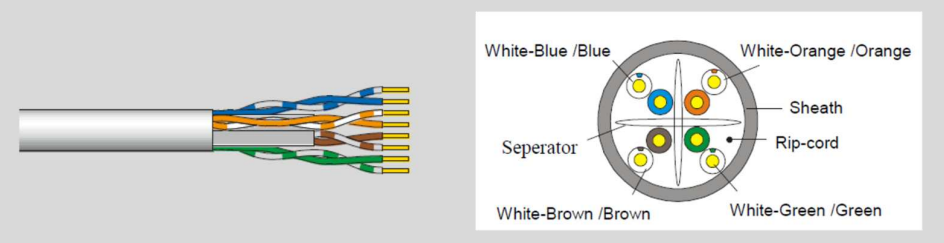
R&M U/UTP Cat.6 250MHz 4PxAWG24 PVC ISO/IEC 11801 ANSI/TIA-568-C.2 U<batch no.><dd/mm/yy><meter> m

Cable reference

Part number	Rtba
Source code	701264

Cable construction

Conductor	Bare solid copper wire AWG24 (≥ Ø 0.53 mm)
Insulation	HDPE ≤ Ø 0.95 ±0.03 mm (Nom.)
Twisting	2 wires to the pair
Cable lay up	4 paires to the core
Sheath	PVC, gray



Application

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

Standards

ISO/IEC 11801 2nd ed.; ANSI/TIA 568C.2 ; IEC61156-7;
IEC 61156-5 2nd ed.: EN50173-1; EN50288-6-1

Technical Data

Cable designation	U/UTP Cat.6 250MHz 4PxAWG24 PVC
Packaging	Box 305 m
Outer diameter	Nominal 601 ±0.4 mm

Electrical Properties	**DC loop resistance**	≤ 9.5 Ω / 100 m	
	DC Conductor Resistance Unbalance (%)	max. 5	
(at 20°C ± 5°C)	**Mean characteristic impedance**	1-250MHz	100 ± 15 Ω
	Delay skew	1-250MHz	≤ 45 ns/100m
	Nominal velocity of propagation	76%	

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)
1.00	2.03	74.3	72.3	67.8	64.8	20.0
4.00	3.78	65.3	63.3	55.8	52.8	23.0
8.00	5.32	60.8	58.8	49.7	46.7	24.5
10.00	5.95	59.3	57.3	47.8	44.8	25.0
16.00	7.55	56.2	54.2	43.7	40.7	25.0
20.00	8.47	54.8	52.8	41.8	38.8	25.0
25.00	9.51	53.3	41.3	39.8	36.8	24.3
31.25	10.67	51.9	49.9	37.9	34.9	23.6
62.50	15.38	47.7	45.4	31.9	28.9	21.5
100.00	19.80	44.3	42.3	27.8	24.8	20.1
200.00	28.98	39.8	37.8	21.8	18.8	18.0
250.00	32.85	38.3	36.3	19.8	16.8	17.3

1) ACR-F was formerly known as ELFEXT.

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R&M

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