

R&M U/UTP Cat.5e 200 MHz PVC

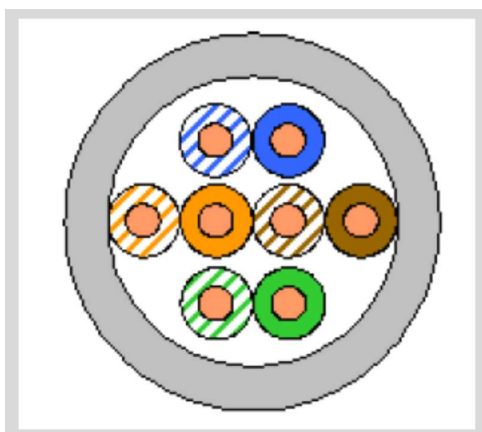
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Cable reference

Part number	R795030
Source code	Q

Cable construction

Conductor	Bare solid copper wire AWG24 ($\geq \varnothing 0.50$ mm)
Insulation	Polyethylene, $\varnothing 0.84 \pm 0.01$ mm
Twisting	2 wires to the pair
Cable lay up	4 paires to the core
Sheath	PVC, RAL 5024 light blue



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.; IEC 61156-5 2nd ed. ;
EN 50173-1; EN 50288-3-1
ANSI/TIA 568C.2

Technical Data

Cable designation	U/UTP Cat.5e 200MHz 4PxAWG24
Packaging	Box 305 m
Outer diameter	Nominal 5.0 ± 0.2 mm

Mechanical Properties

Bending radius	≥ 35 mm without load
	≥ 50 mm 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	≤ 9.38 Ω / 100 m
Resistance unbalance	≤ 5 %
Mean characteristic impedance	100 ± 15 Ω
Nominal velocity of propagation	approx. 70%
Delay skew	≤ 45 ns / 100 m

Typical transmission characteristics (at 20°C)

f (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT ¹⁾ (dB/100 m)	PS- ELFEXT ²⁾ (dB/100 m)	Return loss (dB)
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
31.25	11.7	42.9	39.9	33.9	30.9	23.3
62.50	17.0	38.4	35.4	27.9	24.9	20.7
100	22.0	35.3	32.3	23.8	20.8	19.0
155	24.2	38.0	35.0	24.0	21.0	18.8
200	27.5	36.0	35.0	22.0	19.0	18.0

1) ELFEXT was formerly known as ACR-F.

2) PS-ELFEXT was formerly known as PS-ACR-F.