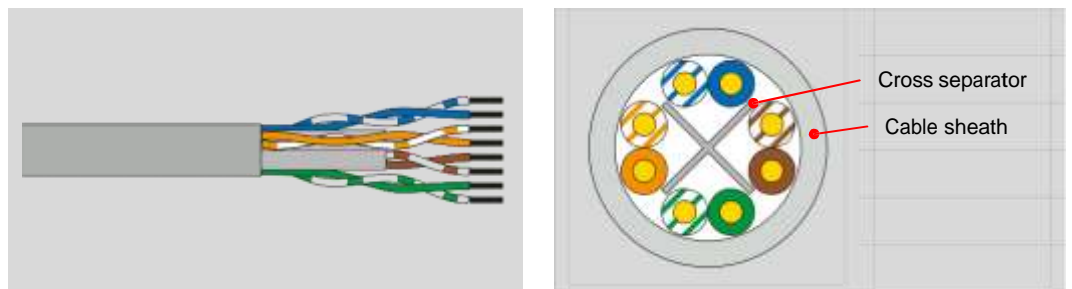


Cable reference	Part number	R795138
	Source code	N
	R&M positioning	Cat.6, Level 1

Cable construction	Conductor	Bare solid copper AWG24 (0.52±0.015mm)
	Insulation	HDPE, overall Ø 0.92±0.02 mm
	Twisting	2 wires to the pair
	Cable lay up	4 pairs to the core with cross separator
	Pair screen	Non
	Overall screen	Non
	Sheath	PVC, gray RAL 7035, Sheath Thickness: 0.50mm nominal



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

Standards ISO/IEC 11801 2nd ed.; EN 50173-1; ANSI/TIA-568-C.2
IEC 61156-5 2nd ed.; IEC 61156-7; EN 50288-6-1

Fire rating Flame retardant- PVC

Technical Data	Cable designation	U/UTP Cat.6 250MHz 4PxAWG24
	Packaging	Drum 305 m
	Outer diameter	5.8±0.3mm
	Weight	13.0kg nominal/305m
	Pulling Pressure	11Kg nominal
	Segregation class	B
	Tensile Strength	> 16.5N/mm ²

Mechanical Properties	Bending radius	≥ 25 mm during operation (without load) ≥ 50 mm during installation (with load)
	Temperature range	During operation -20°C...+ 60°C During installation 0°C...+ 50°C

R&M U/UTP Cat.6 250MHz 4PxAWG24 PVC NVP=69% ISO/IEC 11801 ANSI/TIA-568-C.2 C

Electrical Properties
(at 20°C ± 5°C)

Conductor resistance		≤ 9.38 Ω / 100 m
Resistance unbalance		≤ 2 %
Test voltage	DC, 1 min, core/core	1000 V
Insulation resistance	500 V	≥ 5000 MΩ * km
Capacitance		44 pF / m max.
Capacitance unbalances		≤ 1500 pF / km
Mean characteristic impedance @ 100 MHz		100 ± 15 Ω
Nominal velocity of propagation		Approx. 69 %
Propagation delay	At 1 MHz	≤ 536 ns / 100 m
Delay skew		≤ 45 ns / 100 m
Coupling attenuation		≥ 40 dB
Balance TCL	At 1 MHz	≥ 55 dB
	At 10 MHz	≥ 40 dB
	At 100 MHz	≥ 35 dB

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)	
	Max	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ
4	3.8	3.8	66.3	69	63.3	66	58	70	55	68	23	23
10	6.0	6.0	60.3	63	57.3	60	50	62	47	56	25	25
20	8.5	8.5	55.8	59	52.8	56	44	56	41	54	25	25
62.5	15.5	15.1	48.4	51	45.4	48	34.1	46	31.1	44	21.5	21.5
100	19.9	19.1	45.3	48	42.3	45	30	42	27	40	20.1	20.1
250	33	32	39.3	42	36.3	39	19.8	34	16.8	32	17.3	17.3

¹⁾ ACR-F was formerly known as ELFEXT.