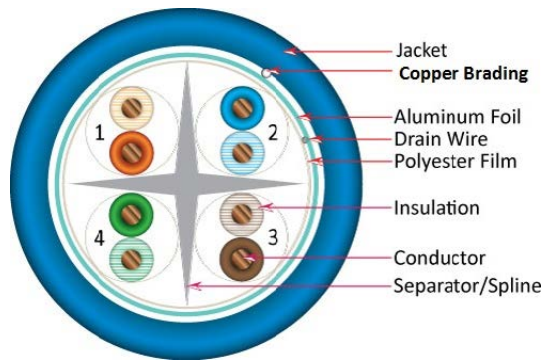


# R&M SFTP Cat.6 250 MHz

R&M SFTP Cat.6 250MHz 4PxAWG23 PVC NVP=69% ISO/IEC 11801 2<sup>nd</sup> ed.; EN 50173-1; ANSI/TIA-568-C.2 IEC 61156-5 2<sup>nd</sup> ed.; EN 50288-6-1

<b>Cable reference</b>	<b>Part number</b>	R195730
	<b>R&amp;M positioning</b>	Cat.6, Level 2

<b>Cable construction</b>	<b>Conductor</b>	Bare solid copper wire AWG23 ( $\geq \varnothing 0.55$ mm)
	<b>Insulation</b>	High density polyethylene
	<b>Twisting</b>	2 wires to the pair
	<b>Cable lay up</b>	4 pairs to the core with cross separator
	<b>Pair screen</b>	Polyester / Al-Mylar Tape
	<b>Overall screen</b>	ATC Copper Braiding
	<b>Sheath</b>	PVC, gray



<b>Application</b>	Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
	IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T
	IEEE 802.5 16 MB; ISDN; TPDDI; ATM
	IEEE 802.3af-2002: POF; IEEE 802.3at: POF+

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

<b>Fire rating</b>	PVC
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<b>Technical Data</b>	<b>Cable designation</b>	SFTP Cat.6 250MHz 4PxAWG23
	<b>Packaging</b>	Drum 305 m
	<b>Outer diameter</b>	Nominal 6.8 ± 0.1 mm
	<b>Pulling force</b>	1F.Í kg

<b>Mechanical Properties</b>	<b>Bending radius</b>	$\geq 25$ mm during operation (without load)
		$\geq 50$ mm during installation (with load)
<b>Temperature range</b>	During operation -20°C...+ 60°C	
	During installation 0°C...+ 50°C	

**Electrical Properties**  
(at 20°C ± 5°C)

<b>Conductor resistance (DC)</b>		≤ 93 Ω / 100m
<b>Resistance unbalance</b>		≤ 5 %
<b>Test voltage</b>	DC, 1 min, core/core	1000 V
<b>Insulation resistance</b>	500 V	≥ 5000 MΩ * km
<b>Mutual capacitance</b>		< 5.6 nF / 100 m
<b>Capacitance unbalance</b>		330 pF / 100 m
<b>Mean characteristic impedance</b>		100 ± 15 Ω
<b>Nominal velocity of propagation</b>		Approx. 69%
<b>Propagation Delay skew</b>		≤ 1.5 ns / 100m
<b>Delay skew</b>		≤ 1.5 ns / 100m

**Typical transmission characteristics (at 20°C) as per ANSI / TIA 568.C.2 PL**

**HIGH FREQUENCY ELECTRICAL PARAMETER**

FREQ (MHz)	ATT (dB/ 100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB @ 100 m) min.	PS.ACRF (dB @ 100 m) min	Return Loss (dB/100m)
1	2.1	65.0	62.0	63.0	60.3	19
4	4.0	63.0	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54.0	43.3	40.3	19
16	8.0	53.2	50.6	39.2	36.2	18
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

R&M SFTP Cat.6 250MHz 4PxAWG23 PVC NVP=69% ISO/IEC 11801 ANSI/TIA-568-C.2 M <batch no.> <dd/mm/yy> <meter> m