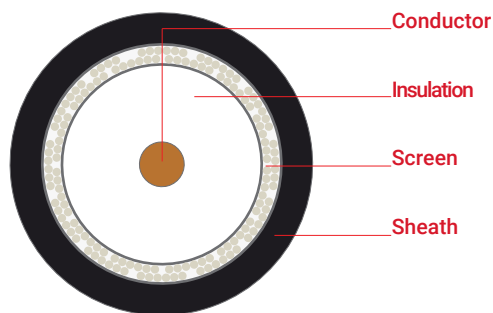




Cable structure



Conductor Electrolytic copper wire, Ø 1.12 mm

Insulation Physical foam PE, Ø 2.95 mm
70°C, EN 50290-2-23

Screen Al-Pet-Al foil min. 100% coverage Tinned braided copper wire, 90% coverage

Sheath PVC - RAL 9011 Black, Ø 5.00 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 5.00 mm
80°C, EN 50290-2-24
HFFR - RAL 9011 Black, Ø 5.00 mm
70°C, EN 50290-2-27

Application

RWC Low Loss cables are manufactured based on the new-generation 3-layer physical foam technology. Provides superior performance for 50-ohms broadband wireless applications. Lower loss, a higher velocity of propagation and better RF screening compared to conventional RG cables. Generally terminated with BNC, TNC, SMA and N-Type connectors. Used in radio and wireless communication, RFID, WiFi, Distributed antenna systems (DAS), Wireless Internet (WISP), Global positioning (GPS) systems, defence industry and telecommunication systems. Cables with polyethylene sheath are preferable in outdoor and underground installations while the halogen-free version is mainly intended for areas that require fire resistance.

Specifications

Operating temperature		-30°C ...+70°C	
Bending radius	min.	10 x D	
Impedance		50 ± 3 Ω	
Capacitance		79 ± 2 pF/m	
Velocity of propagation		(85 ± 2)%	
Insulation resistance	min.	2 GΩ x km	
Operating voltage	max.	1300 V	
Test voltage		3000 V	
Attenuation @20°C	max.	30 MHz	5.90 dB/100 m
		50 MHz	7.50 dB/100 m
		150 MHz	12.8 dB/100 m
		220 MHz	15.5 dB/100 m
		450 MHz	22.3 dB/100 m
		900 MHz	32.0 dB/100 m
		1500 MHz	41.9 dB/100 m
		1800 MHz	46.2 dB/100 m
		2000 MHz	48.9 dB/100 m
		2500 MHz	55.3 dB/100 m
		5800 MHz	88.5 dB/100 m
Return loss ¹⁾		30-1000 MHz	> 20 dB
		1000-3000 MHz	> 15 dB
Segregation class		"d" EN 50174-2	
Screen Attenuation		30-3000 MHz	≥ 90 dB

Standards EN 50117, IEC 61196

Fire performance

Vertical flame propagation EN 60332-1-2 (PVC-HFFR)
Corrosive gas EN 60754-1/2 (HFFR)
Smoke density EN 61034-2 (HFFR)

EU declaration of conformity

LVD	Low Voltage Directive	2014/35/EU
RoHS	Restriction of Hazardous Substances	2011/65/EU

¹⁾ According to EN 50117, 3 return loss peaks, whose value exceeds the limit by a maximum of 4 dB, are permissible.

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
305054	RWC 200 PVC	5.0	19	37	Black (RAL 9011)	500/1000
305061	RWC 200 PE	5.0	19	32	Black (RAL 9011)	500/1000
305068	RWC 200 HFFR	5.0	19	37	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.