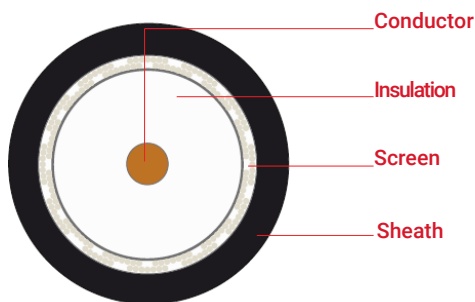




**Cable structure**



Electrolytic copper wire, Ø 2.70 mm

Physical foam PE, Ø 7.20 mm  
70°C, EN 50290-2-23

Al-Pet-Al foil min. 100% coverage  
Tinned braided copper wire, 83% coverage

PVC - RAL 9011 Black, Ø 10.2 mm  
TM51 70°C, EN 50290-2-22  
PE - RAL 9011 Black, Ø 10.2 mm  
80°C, EN 50290-2-24  
HFFR - RAL 9011 Black, Ø 10.2 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		78.5 ± 2 pF/m	
Velocity of propagation		(85 ± 2)%	
Insulation resistance	min.	2 GΩ x km	
Operating voltage	max.	2000 V	
Test voltage		5000 V	
Attenuation @20°C	max.	30 MHz	2.38 dB/100 m
		50 MHz	3.01 dB/100 m
		150 MHz	5.10 dB/100 m
		220 MHz	6.18 dB/100 m
		450 MHz	8.96 dB/100 m
		900 MHz	13.02 dB/100 m
		1500 MHz	17.33 dB/100 m
		1800 MHz	19.24 dB/100 m
		2000 MHz	20.45 dB/100 m
		2500 MHz	23.30 dB/100 m
		5800 MHz	38.92 dB/100 m
Return loss <sup>3)</sup>		30-1000 MHz	> 23 dB
		1000-3000 MHz	> 20 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

<sup>3)</sup> Maximum applicable length in 30 dBµV VHF/UHF and S-band Cable TV without line amplifier

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
305057	RWC 400 PVC	10.2	81	148	■ Black (RAL 9011)	500/1000
305064	RWC 400 PE	10.2	81	130	■ Black (RAL 9011)	500/1000
305071	RWC 400 HFFR	10.2	81	150	■ Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.