Coaxial cable H155 (WC-55)

WC-55 is a coaxial cable with an impedance of 50Ω and an external diameter of 5.4 mm (suitable connector on the cable H155). The inner conductor is stranded structure (twisted copper wire). The dielectric is made of PE, so the cable is perfect for outdoor applications.

Component

Inner conductor: Stranded copper ø 7x0.45 ±0.02 mm
Dielectric: Gas injected PE ø 3.60 ±0.01 mm
Outer conductor: -Shield Al/PES/Al
-Braid Tin copper
Sheath: PE Black (semi loose extrusion)

Marking

Wave-Cable WC-55 Coaxial Cable (Meter mark at every 1 meter section)

APPLICATIONS

The cable may be used in WLANs working at 2.4 GHz.

FEATURES

- Specified and tested to 3 GHz
- Perfect matching

BENEFITS

- Suitable connector on the cable H155
- Reduced installation costs and maintenance

Specification

Inner conductor		Stranded copper	ø 7x0.45 ±0.02 mm	
Dielectric		Gas injected PE	ø 3.60 ±0.01 mm	
Outer conductor	Shield	Al/PES/Al	Breadth	13 mm
			Thickness	9/12/9 µm
			Min. overlap	2mm
	Braid	Tin copper	Formation	16x6x0.12 ±0.01 mm
			Lay	26mm
			Angle	15° to 45°
			Min. coverage	79%
Sheath		PE Black (semi loose extrusion)	Diameter	ø 5.4 ±0.2mm
			Min. thickness	0.6mm

Electrical data

Impedance	50 ±3Ω	
Capacitance	75pF/m ±5.6	
Attenuation at 20°C [dB/100m]	5 MHz	1.8
	50 MHz	6.8
	200 MHz	12.5
	400 MHz	17.8
	800 MHz	26.0
	1000 MHz	29.6
	1350 MHz	34.7
	1750 MHz	40.0
	2150 MHz	44.5
	3000 MHz	53.2
Return loss	5 - 30 MHz	> 22 dB
	30 – 470 MHz	> 20 dB
	470 – 1000 MHz	> 18 dB
	1000 – 2150 MHz	> 18 dB