

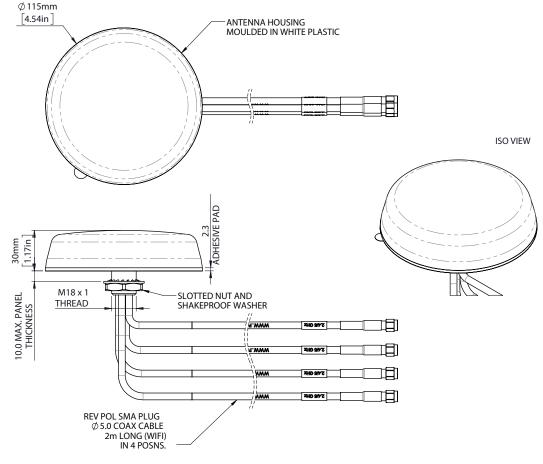
- Ultra Low Profile
- Up to 4 x 4 MiMo Dual Band WiFi
- EN45545-2 Certified
- EN50155 Certified
- Certified to IP69K and IK10

The CM[X]-24-58 range has been designed to provide MiMo dual band WiFI coverage in an ultra low profile package. The compact, robust low-profile housing contains up to four antenna elements with effective isolation and low correlation covering 2.4-2.5/4.9-6GHz.

The antenna is designed to be ceiling mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant CS32 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments.

EN45545-2 and EN50155 approvals mean that the antenna is suitable for mounting on and inside rolling stock and the low height makes the product suitable for low clearance scenarios including two deck rail cars.

Technical Drawing CM4-24-58-2RPSP Shown



Ultra Low Profile MiMo WiFi Antenna CM[X]-24-58-2[VAR]



Product Data

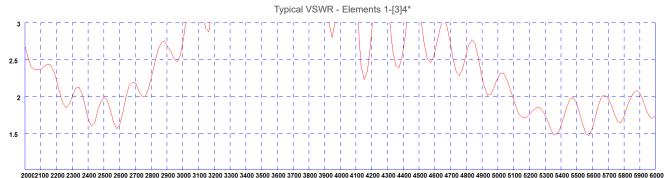
Part No.		CM2-24-58-2[VAR]	CM3-24-58-2[VAR]	CM4-24-58-2[VAR]
		2x 2.4/5.0 GHz	3x 2.4/5.0 GHz	4x 2.4/5.0 GHz
Peak Gain: Isotropic i	2.4-2.5GHz	4dBi	4dBi	6dBi
	4.9-6.0GHz	5dBi	6dBi	9dBi
Typical VSWR*			< 2:1	
Typical Isolation*			> 12dB	
Pattern			Omni-directional	
Nominal Impedance		50Ω		
Max Input Power			10W	
Mechanical Data				
Dimensions	Diameter		115mm (4.52")	
	Height		30mm (1.18")	
Operating Temp.		-30° / +70°C (-22° / 158°F)		
Material		LEXAN EXL9330		
Colour		White		
IP Rating		IP66 / IP69K**		
Vandal Protection		IK10		
Regulatory Approvals		EN45545-2 : HL 1-3 / EN50155		
Mounting Data				
Fixing		Panel Mount - 18mm (3/4")		
Cable Data				
WiFi Cables	Cable Type	CS32 Flame Retardant to UN118.01 / EN6722 / EN45545-2		
	Diameter	5mm (0.2")		
	Length	2m (6')		
	Termination			
	Rev Pol SMA Plug	CM2-24-58-2RPSP	CM3-24-58-2RPSP	CM4-24-58-2RPSP
	Right Angled N Plug	CM2-24-58-2RANP	CM3-24-58-2RANP	CM4-24-58-2RANP

⁺ Peak gain simulated with all elements fed on 600x600mm ground plane excluding cable loss

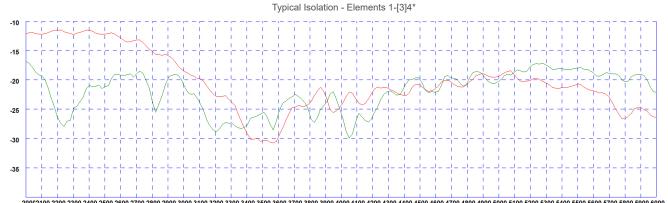
^{*} Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable

^{**}When installed in accordance with SW3-996

Electrical Data - Cell



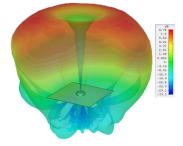
^{*} VSWR measured with 0.5m (1.5') of CS32 cable



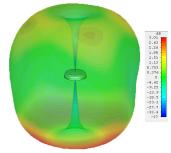
*Isolation measured with 0.5m (1.5') of CS32 cable Red Plot = Adjacent Elements Green Plot =Opposite Elements

3D Patterns - Cell

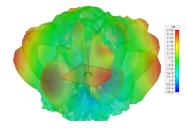
Typical 3D Pattern CM4 Ground Plane (2450MHz)



Typical 3D Pattern CM4 Free Space (2450MHz)



Typical 3D Pattern CM4 Ground Plane (5400MHz)



Typical 3D Pattern CM4 Free Space (5400MHz)

