

RMC 12-CL

PRODUCT DESCRIPTION

RMC 12-CL-HLFR

Reference suffix ⁽¹⁾ : -HLFR



Fire behaviour

Halogen free and flame retardant outer sheath Low corrosive gas emission acc. to IEC 60754-2 Flame retardant acc. to IEC 60332-1 and IEC 60332-3 cat. C Low smoke emission acc. to IEC 61034

Slots in the copper outer conductor allow a controlled portion of the internal RF energy to be radiated into the surrounding environment. Conversely, a signal transmitted near the cable will couple into the slots and be carried along the cable length.

FEATURES and BENEFITS

- · Low Fading at short Aerial to Cable distance
- Robust Cable
- Main Applications: WLAN controlled Transportation Systems
- Optimised for WLAN applications in the 2.40 2.485 GHz band

TECHNICAL FEATURES

Previous Model NumberN.A.• Previous Model NumberN.A.• Frequency RangeMHz• Frequency RangeMHz• Recommended for FrequencyMHz• Cable TypeRMC (Radiated Mode Cable)• Cable TypeHLFR (Halogen Free Low Smoke Flame Retardant)• JacketGroups of Slots at short intervals• ImpedanceΩ• Velocity Ratio%• CapacitancepF/m• Inner Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)• Inner Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)• Inner Conductor MaterialCopper clad aluminium wire• Dielectric MaterialCellular polyethylene			
• Frequency RangeMHz75 - 2900• Recommended for FrequencyMHz2400 - 2485• Cable TypeRMC (Radiated Mode Cable)• JacketHLFR (Halogen Free Low Smoke Flame Retardant)• Slot DesignGroups of Slots at short intervals• ImpedanceΩ50 +/- 3• Velocity Ratio%88• CapacitancepF/m76• Inner Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)1.48 (0.45)• Outer Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)2.8 (0.85)• Inner Conductor MaterialCopper clad aluminium wire• Dielectric MaterialCellular polyethylene	• Size		1/2″
• Recommended for FrequencyMHz2400 - 2485• Cable TypeRMC (Radiated Mode Cable)• JacketHLFR (Halogen Free Low Smoke Flame Retardant)• Slot DesignGroups of Slots at short intervals• ImpedanceΩ• Velocity Ratio%• CapacitancepF/m• Inner Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)• Inner Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)• Inner Conductor MaterialCopper clad aluminium wire• Dielectric MaterialCellular polyethylene	 Previous Model Number 		N.A.
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• Outer Conductor dc ResistanceΩ/1000 m (Ω/1000 ft)2.8 (0.85)• Inner Conductor MaterialCopper clad aluminium wire• Dielectric MaterialCellular polyethylene	Capacitance	pF/m	76
• Inner Conductor Material Copper clad aluminium wire • Dielectric Material Cellular polyethylene	 Inner Conductor dc Resistance 	Ω /1000 m (Ω /1000 ft)	1.48 (0.45)
Dielectric Material Cellular polyethylene	 Outer Conductor dc Resistance 	$\Omega/1000$ m ($\Omega/1000$ ft)	2.8 (0.85)
	 Inner Conductor Material 		Copper clad aluminium wire
Outer Conductor Metavial	Dielectric Material		Cellular polyethylene
• Outer Conductor Material Overlapping copper foil, with slot groups, bonded to the Jacket	 Outer Conductor Material 		Overlapping copper foil, with slot groups, bonded to the jacket