



RAISON ENTERPRISE CO., LTD.
(11491) No.12, Lane321, Yangguang St, Neihu Dist, Taiei, Taiwan

Construction Specification

Item	Material	Diameter (mm)
Inner conductor	Solid Bare Copper	Nominal 1.12
Insulation	Foam polyethylene	Nominal 2.95
Wrapping	Aluminum/PE Tape	Nominal 3.07
Outer conductor	Tinned copper wire	Nominal 3.66
Jacket	PVC (CFD200) PE (CFD200-E) LSNH (CFD200-FR)	Nominal 5.0

Cable Marking

Description	Content
Cable marking	Cable type · Name of manufacturer

Environmental Specification

Item	Value
Installation temperature range	-20°C ~ +60°C
Storage temperature range	-20°C ~ +60°C
Operating temperature range	-20°C ~ +60°C

Mechanical Specification

Item	Value
Minimum bend radius	12.7mm
Cable weight	0.04kg/m

Low Smoke, Non-Toxicity, Halogen-Free Specification

Item	Specification	
	Method	Value
Smoke density	ASTM E662	Dm20 < 150
Toxicity index	NES 713	< 5
Halogen acid gas evolution	IEC 60754-2	pH > 4.3
Flame retardant test	IEC 60332-1	Pass



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Electrical Specification (At 20°C)

Description	Value
Conductor resistance Inner conductor	Nom. 17.59 Ω /km
Voltage withstand	1000V rms/1min
Velocity of propagation	Nom. 85%
Impedance	50 Ω @200MHz
Capacitance	Nom. 80.4 pF/m
Inductance	Nom. 0.20 μ H/m
<u>Attenuation / Avg. Power</u>	
Frequency(MHz)	dB/100m - kW, nom.
30	5.8 - 1.02
50	7.5 - 0.79
150	13.1 - 0.45
220	15.9 - 0.37
450	22.8 - 0.26
900	32.6 - 0.18
1500	42.4 - 0.14
1800	46.6 - 0.13
2000	49.3 - 0.12
2500	55.4 - 0.10
5800	86.5 - 0.07

Packing

Both ends of the cable shall be effectively sealed to prevent the entrance of moisture.
The cable shall be supplied in plywood drum 500m or coils of 200m.