

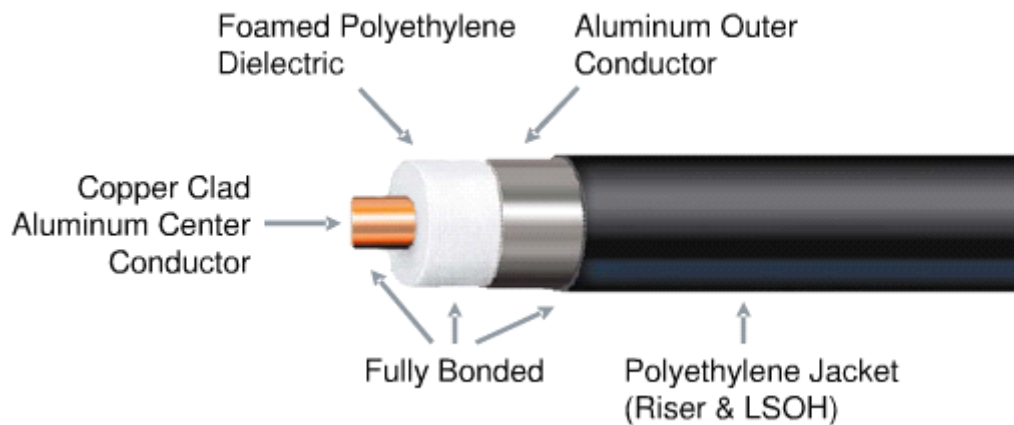


浙江万马天屹通信线缆有限公司

Zhejiang Wanma Tianyi Communication Wire & Cable Co., Ltd.

SPECIFICATION

Smooth Wall Type Foam Dielectric Feeder Coaxial Cable





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1. SCOPE

This specification covers the minimum requirements for smooth wall type high-foamed, 50 ohms, feeder cables for RF system applications.

2. DIMENSIONS & ELECTRICAL REQUIREMENT

● Electrical Requirements

Item		Smooth Wall Type Feeder Coaxial Cable	
		2/5"	1/2"
Conductor resistance (Ω/Km)	Inner conductor	Max. 3.0	Max. 1.8
	Outer conductor	Max. 3.4	Max. 2.8
Dielectric resistance		DC 2,500V x 1min.	DC 4,000V x 1min.
Insulation resistance (MΩ/Km)		Min.1000	
Characteristic impedance		50+/- 2 Ω	50+/- 1 Ω
VSWR		Max. 1.1 (1.7GHz – 2.7GHz, 100m)	
Peak power rating		12kW	25kW
Propagation velocity		85%	88%
Intermodulation	2G & 3G frequency	Min. -155dBc	Min. -155dBc

Max. Attenuation at 20 °C, [frequency, MHz]

unit: dB/100m

Type	30	50	450	800	1000	1500	1800	2000	2400
2/5"	1.9	2.4	7.35	9.48	11.15	13.65	15.05	15.95	17.65
1/2"	1.3	1.6	4.95	6.6	7.54	9.45	10.36	10.98	12.16

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● **Construction**

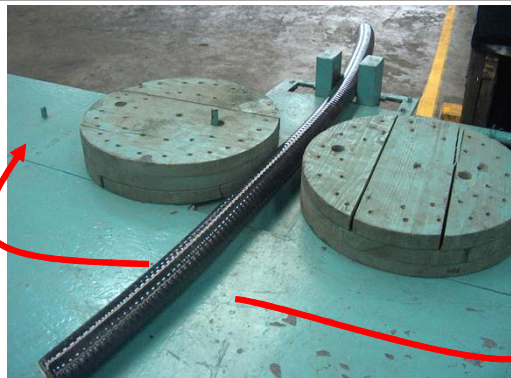
Item	Smooth Wall Type Feeder Coaxial Cable	
	2/5"	1/2"
Inner Conductor material	Copper Clad Al wire	
Outer conductor material	Aluminum (purity min. 99.5%)	
Outer conductor construction	Without corrugation	
Inner conductor diameter	3.56mm+/-0.05mm	5.0mm+/-0.05mm
Diameter over outer conductor	10.1mm+/-0.05mm	13.7mm+/-0.05mm
Ovality of Outer conductor	Min. 95%	Min. 95%
Outer diameter of cable	Nom.11.3mm Max. 11.6mm	Nom.15.5mm Max.15.8mm
Min. bending radius	31.75mm	51mm

Ovality = 1- (max. diameter –min. diameter)/min. diameter)

3. MECHANICAL PROPERTIES

● **Bending test**

Type	Mandrel diameter	Flexing time	Requirement
2/5"	20 x Outer diameter	1cycle: left 180° + right 180°	No deformation on outer conductor and Jacket
1/2"	20 x Outer diameter	Total 15cycles	





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4. Jacket material

Jacket material shall **be medium Density Black Polyethylene.**

5. Sheath Marking

- (1) Each length of the cable with an outer jacket shall be permanently marked as to name of the cable, size of cable, manufacturer's name, year of manufacture and sequentially numbered length marking.
- (2) The marking shall be printed at a regular interval not exceeding 1 meter with white color.
- (3) Example of sheath marking

1/2" SWT: 0001M NAME AL-SWT-1/2" 2009

2/5" SWT : 0001M NAME AL-SWT-2/5" 2009

Note: "2009" means manufactured year

6. Packing

- (1) The standard cables of 500m lengths shall be delivered on wooden drums and protected against damage during shipment and handling.
- (2) Both ends of the cable shall be sealed against the infiltration of moisture.
- (3) Both flanges should be clear. (There should be no printing or letter on the flange)
- (4) Label on the flange should be easily removed for the re-package