Antenna data sheet

Description	UL3302 wire antenna
Part No.	MX-3302-002
Dimension	30AWG(7/0.10mm) OD=0.70mm
Material	Tinned copper wire & XL-PE
Gain(Peak)	1.69dBi

Manufacturer : Dongguan Mingxiu electronic technology Co., LTD

Address : No. 1, Xinxing Road, Shajiao Community, Humen Town, Dongguan

Issue Date: 2013/5/16

1. Scope

This specification covers the construction
and the electrical properties of wire.

UL3302 Single Wire

30 AWG

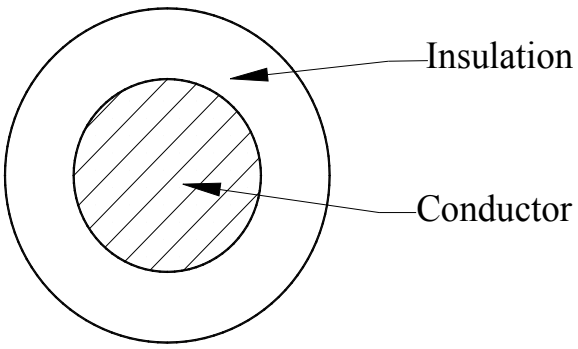
2. Construction Unit: mm

Item		Unit	Details
Conductor	Material	-	Tinned copper wire
	Composition	(No./mm)	7/0.10
	OD.	mm	0.30
	Orientation	-	S
Insulation	Material	-	XL-PE
	Nom. Thickness	mm	0.2
	OD.	mm	0.70±0.03

3. Electrical Properties (at 20℃)

Item	Unit	Details
Conductor Resistance	Ω/km	381(Max.)
Insulation Resistance	MΩ • km	100(Min.)
Dielectric Strength(AC)V/ 1 Min		500
Rated Voltage	V	30
Rated Temperature	℃	105
Fire-proof level	-	FT-2(VW-2)
Printed content	-	-

4.



5. Environment-Friendliness *Compliance "O"

RoHS Directive							
Lead Free	Hg Free	Cd Free	Cr6+Free	PBB Free	PBDE Free	PVC Free	① Halogen Free
○	○	○	○	○	○	○	○

Remark:

① Halogen Free:

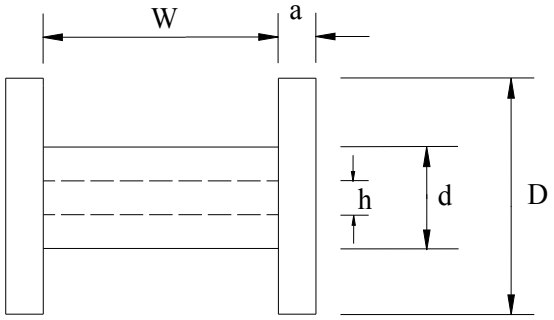
The scope of Halogen Free is not including Fluorin resin.

6.Packing

Standard unit length of finished cable shall be 2000m on reel and shall be packed not to be damaged during transportation.

(Min length 200m/reel)

·Dimension of plastic reel(P-100); Black



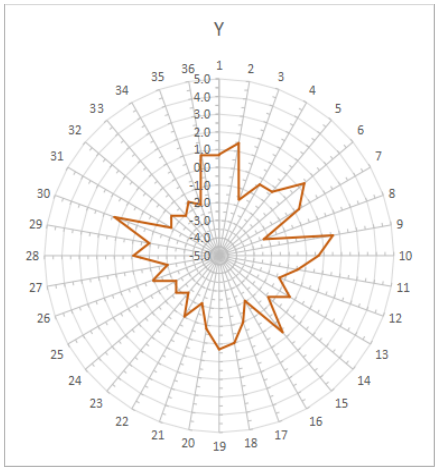
Unit: mm

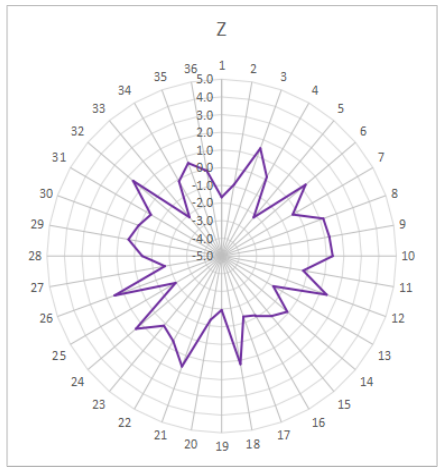
Item	D	d	W	a	h
P-100	100	50	70	10	20

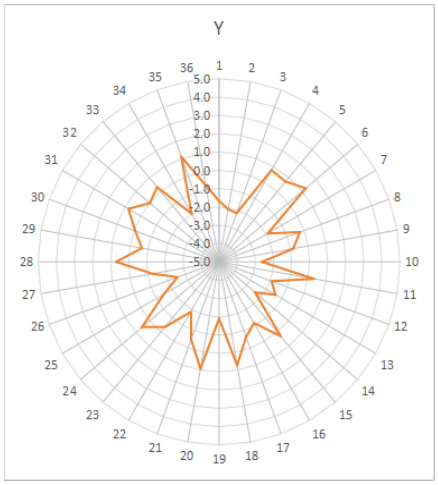
• Dimension of packing cartion

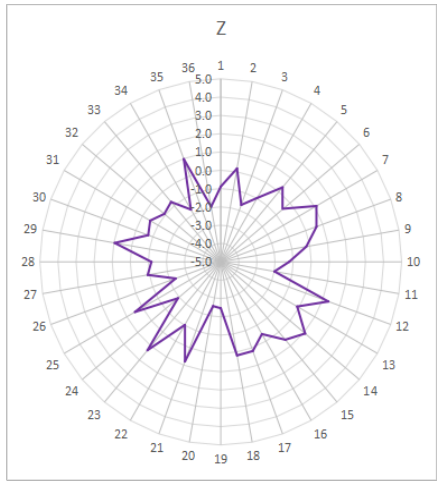
Unit: 6 Reel/Box

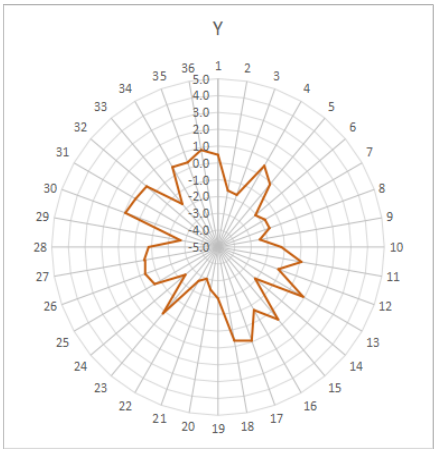
2D radiation pattern diagram

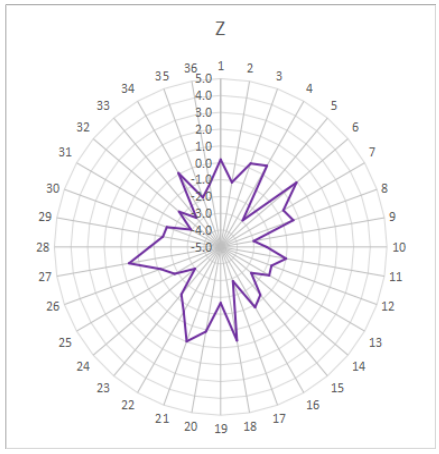




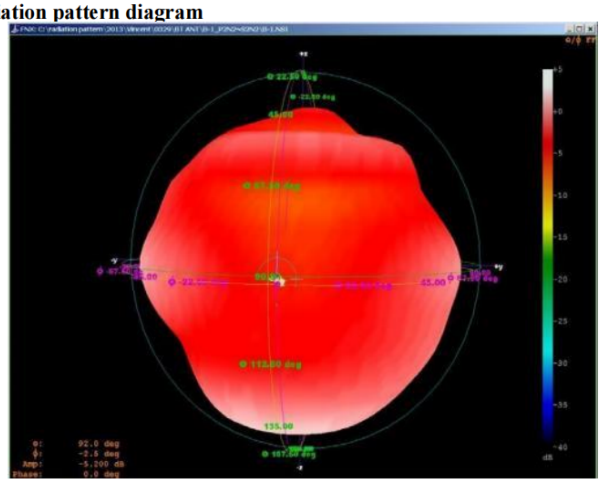








3D radiation pattern diagram



Frequency and Gain

Gain		
Frequency(MHz)	Effi	Peak Gain
2400	1.53	1.69
2410	1.53	1.33
2420	1.52	1.20
2430	1.66	1.08
2440	1.69	1.29
2450	1.56	1.33
2460	1.56	1.04
2470	1.28	0.90
2480	1.31	1.34
2490	1.48	0.94
2500	1.38	1.00

VSWR		
Frequency(MHz)	Return Loss	VSWR
2400	-8.16	1.79
2450	-11.49	2.79
2500	-10.57	2.23