
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

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1. Scope

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

UL3302 Single Wire
30 AWG

2. Construction

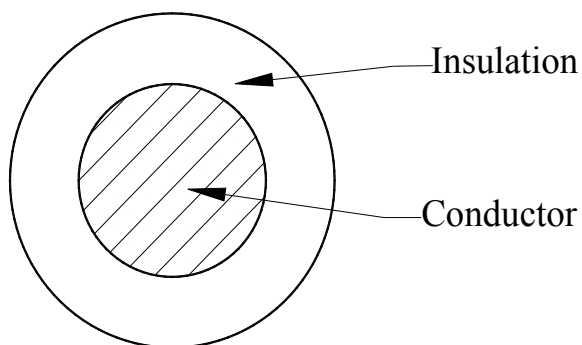
Unit: mm

| 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°C)

| Item | Unit | Details |
|----------------------------------|----------------------------------|-------------|
| Conductor Resistance | Ω/km | 381 (Max.) |
| Insulation Resistance | $\text{M}\Omega \cdot \text{km}$ | 100 (Min.) |
| Dielectric Strength(AC) V/ 1 Min | | 500 |
| Rated Voltage | V | 30 |
| Rated Temperature | °C | 105 |
| Fire-proof level | - | FT-2 (VW-2) |
| Printed content | - | - |

4.



5. Environment-Friendliness *Compliance "0"

| RoHS Directive | | | | | | PVC Free | ① Halogen Free |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Lead Free | Hg Free | Cd Free | Cr6+Free | PBB Free | PBDE Free | | |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Remark:

① Halogen Free:

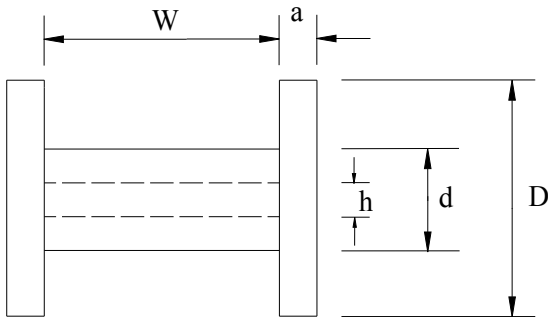
The scope of Halogen Free is not including Fluorin resin.

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

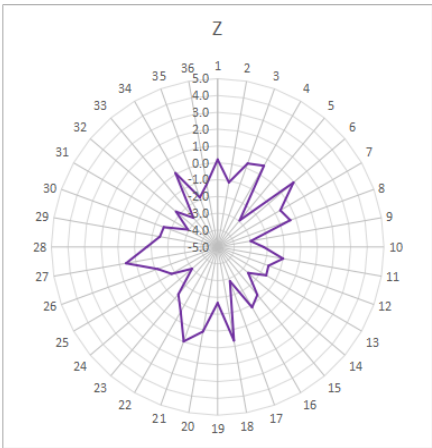
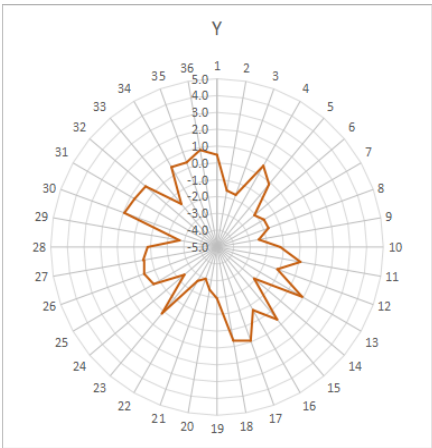
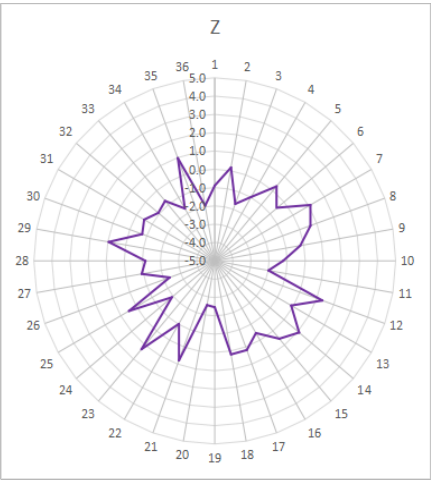
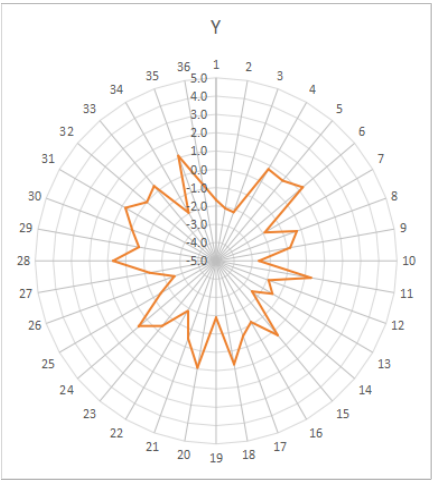
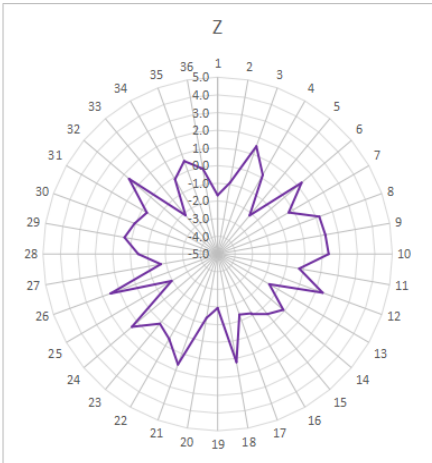
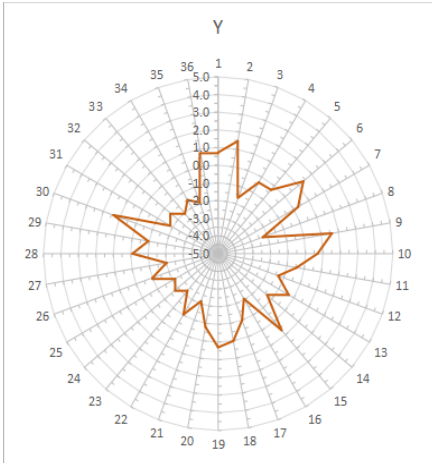


Unit: mm

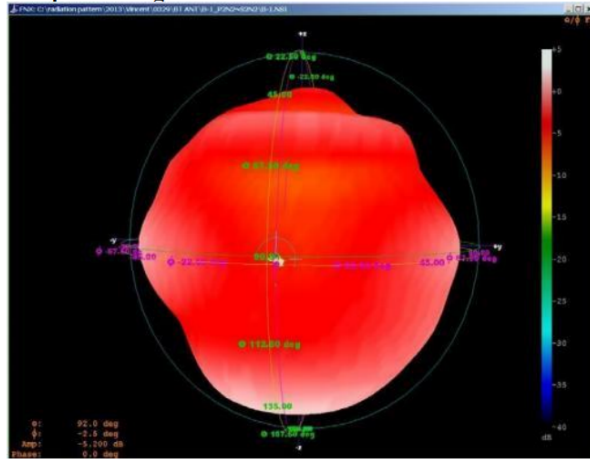
| Item | D | d | W | a | h |
|-------|-----|----|----|----|----|
| P-100 | 100 | 50 | 70 | 10 | 20 |

• 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 |