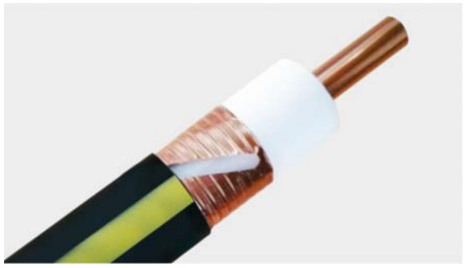
1. CABLE STRUCTURE

1.1 Cable Type: HLRCACYZ-50-12（75-3800MHz）



1.2 Construction of Cable

Item	specification
Type	Radiation
Nominal size	1/2”
Inner conductor construction	4.8mm /Copper clad aluminium
Insulation material	Physical foamed polyethylene
Outer conductor material	12.9mm /Overlapping corrugated cooper foil
Jacket material	FRLSZH Polyolefin
OD and color of Jacket	15.6mm / Black

1.3 Mechanical Characteristics

Item	Nominal value
Maximum tensile strength	1000N
Min. static bending radius	150mm (Single bend)
Slot identification	With
Recommended hanger spacing	1m
Installation temperature	-20~+60℃
Operation temperature	-40~+80℃
Storage temperature	-10~+50℃

1.4 Electrical Characteristics

Item	Specification
Radiation angle	≥170°
Polarization mode	Vertical polarization
VSWR (Typical)	1.30
Characteristics impedance	50±2Ω
Peak power	40kw
Dielectric strength	15000V(DC,1 min.)
Min. insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000V(AC)
Relative transmission rate	88%

Note: The tolerance of VSWR shall be ±5%.

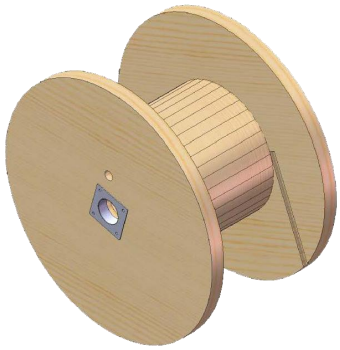
1.5 Attenuation

Frequency(MHz)	Attenuation (dB/100m)	Coupling loss
MHz	dB/100m, 20℃	95%, 2m, dB
75	2.6	78
150	3.4	80
350	4.9	84
450	5.6	84
800	7.6	79
900	8.0	77
1800	11.6	73
2000	12.5	72
2200	13.7	70
2400	14.1	73
2600	15.2	72
2700	15.9	71
3500	19.2	70
3600	19.6	72
3700	20.2	70
3800	20.8	68

Note: The tolerance of Attenuation shall be ±10%.and the tolerance of Coupling loss shall be ±5dB.

2. PACKING INFORMATION

highly foamed polyethylene dielectric coaxial cables are coiled on iron wooden reels, which are not returnable and protected by strong wooden batten. The end of cable will be sealed with heat shrinkable end cap to prevent ingress of water.



Note: The drum size & cable weight as above is estimated and final size & weight shall be confirmed before shipment.