

Type of Radio Frequency Cables for Communication Base Station

RF Cable(Corrugated Copper tube)

HCAAY(Z)-50-12(1/2")

HCTAY(Z)-50-22(7/8")

HCTAY(Z)-50-23(7/8" low loss)

HCTAY(Z)-50-32(1-1/4")

HHTAY(Z)-50-42(1-5/8")

RF Cable(Corrugated Aluminum tube)

HCAALY(Z)-50-12(1/2"AL)

HCTALY(Z)-50-22(7/8"AL)

HCTALY(Z)-50-32(1-1/4"AL)

HCTALY(Z)-50-23(7/8"AL low loss)

RF Cable (Super flexible Cable)

HRY(Z)-50-5(1/4"S)

HRCAY(Z)-50-9(1/2"S)

HHTAY(Z)-50-21(7/8"S)

Accessories



(Corrugated Copper tube)

HCAAY(Z)50-12(1/2")

Mechanical Properties

| | |
|--|-----------|
| Diameter Over Dielectric(mm) | 12.3 |
| Diameter Over Jacket(mm) | 15.7 |
| Inner Conductor OD(mm) | 4.8 |
| Outer Conductor OD(mm) | 13.9 |
| Weight (kg/m) | 0.24 |
| Min bending radius single bending (mm) | 80 |
| Min bending radius repeated bending (mm) | 125 |
| Tensile strength(N) | 1130 |
| Operating temperature (deg Celcius) | -40℃~+70℃ |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 40 |
| VSWR | 800~1000 | 1.07 |
| | 1700~2300 | 1.07 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 2.22 | 2.60 | 2000 | 11.22 | 0.53 |
| 150 | 2.74 | 2.10 | 2100 | 11.54 | 0.51 |
| 200 | 3.20 | 1.81 | 2200 | 11.84 | 0.50 |
| 300 | 3.96 | 1.46 | 2400 | 12.43 | 0.46 |
| 450 | 4.92 | 1.18 | 2500 | 12.73 | 0.45 |
| 500 | 5.22 | 1.12 | 2700 | 13.31 | 0.44 |
| 700 | 6.26 | 0.96 | 3000 | 14.14 | 0.42 |
| 800 | 6.73 | 0.87 | | | |
| 900 | 7.19 | 0.82 | | | |
| 1000 | 7.62 | 0.77 | | | |
| 1500 | 9.55 | 0.62 | | | |
| 1800 | 10.57 | 0.56 | | | |

Note: Maximum value shall be 105% of the nominal value.

(Corrugated Copper tube)

HCTAY(Z)-50-23(7/8" low loss)

Mechanical Properties

| | |
|--|---------------|
| Diameter Over Dielectric(mm) | 22.8 |
| Diameter Over Jacket(mm) | 27.9 |
| Inner Conductor OD(mm) | 9.4 |
| Outer Conductor OD(mm) | 25.2 |
| Weight (kg/m) | 0.55 |
| Min bending radius single bending (mm) | 160 |
| Min bending radius repeated bending (mm) | 285 |
| Tensile strength(N) | 850 |
| Operating temperature (deg Celcius) | -40 °C~+70 °C |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ•km |
| Peak power rating (kW) | | 91 |
| VSWR | 800~1000 | 1.07 |
| | 1700~2300 | 1.07 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 1.14 | 9.10 | 2000 | 5.85 | 1.86 |
| 150 | 1.41 | 7.35 | 2100 | 6.02 | 1.79 |
| 200 | 1.64 | 6.34 | 2200 | 6.19 | 1.75 |
| 300 | 2.04 | 5.11 | 2400 | 6.51 | 1.61 |
| 450 | 2.53 | 4.13 | 2500 | 6.67 | 1.58 |
| 500 | 2.68 | 3.92 | 2700 | 6.98 | 1.54 |
| 700 | 3.23 | 3.36 | 3000 | 7.43 | 1.47 |
| 800 | 3.48 | 3.05 | | | |
| 900 | 3.71 | 2.87 | | | |
| 1000 | 3.94 | 2.70 | | | |
| 1500 | 4.96 | 2.17 | | | |
| 1800 | 5.51 | 1.96 | | | |

Note: Maximum value shall be 105% of the nominal value.





Mechanical Properties

| | |
|--|---------------|
| Diameter Over Dielectric(mm) | 22.2 |
| Diameter Over Jacket(mm) | 27.4 |
| Inner Conductor OD(mm) | 9 |
| Outer Conductor OD(mm) | 24.9 |
| Weight (kg/m) | 0.52 |
| Min bending radius single bending (mm) | 140 |
| Min bending radius repeated bending (mm) | 250 |
| Tensile strength(N) | 1500 |
| Operating temperature (deg Celcius) | -40 °C~+70 °C |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ•km |
| Peak power rating (kW) | | 90 |
| VSWR | 800~1000 | 1.06 |
| | 1700~2300 | 1.06 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 1.19 | 8.60 | 2000 | 6.07 | 1.68 |
| 150 | 1.47 | 7.00 | 2100 | 6.24 | 1.63 |
| 200 | 1.72 | 6.00 | 2200 | 6.41 | 1.59 |
| 300 | 2.13 | 4.83 | 2400 | 6.72 | 1.50 |
| 450 | 2.65 | 3.88 | 2500 | 6.90 | 1.47 |
| 500 | 2.80 | 3.67 | 2700 | 7.22 | 1.41 |
| 700 | 3.36 | 3.02 | 3000 | 7.68 | 1.33 |
| 800 | 3.62 | 2.83 | | | |
| 900 | 3.86 | 2.65 | | | |
| 1000 | 4.10 | 2.50 | | | |
| 1500 | 5.16 | 1.99 | | | |
| 1800 | 5.71 | 1.79 | | | |

Note: Maximum value shall be 105% of the nominal value.

(Corrugated Copper tube)

HHTAY(Z)-50-42(1-5/8")

Mechanical Properties

| | |
|--|----------------|
| Diameter Over Dielectric(mm) | 42.3 |
| Diameter Over Jacket(mm) | 49.5 |
| Inner Conductor OD(mm) | 17.3 |
| Outer Conductor OD(mm) | 46.5 |
| Weight (kg/m) | 1.4 |
| Min bending radius single bending (mm) | 280 |
| Min bending radius repeated bending (mm) | 500 |
| Tensile strength(N) | 3000 |
| Operating temperature (deg Celcius) | -40 °C ~+70 °C |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 302 |
| VSWR | 800~1000 | 1.10 |
| | 1700~2300 | 1.10 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 0.64 | 16.90 | 2000 | 3.55 | 3.45 |
| 150 | 0.80 | 13.65 | 2100 | 3.66 | 3.32 |
| 200 | 0.94 | 11.77 | 2200 | 3.77 | 3.25 |
| 300 | 1.18 | 9.49 | 2400 | 4.02 | 2.99 |
| 450 | 1.48 | 7.67 | 2500 | 4.08 | 2.93 |
| 500 | 1.57 | 7.28 | 2700 | 4.28 | 2.86 |
| 700 | 1.90 | 6.24 | 3000 | 5.08 | 2.73 |
| 800 | 2.06 | 5.66 | | | |
| 900 | 2.20 | 5.33 | | | |
| 1000 | 2.34 | 5.01 | | | |
| 1500 | 2.98 | 4.03 | | | |
| 1800 | 3.31 | 3.64 | | | |

Note: Maximum value shall be 105% of the nominal value.

HCTAY(Z)-50-32(1-1/4")

Mechanical Properties

| | |
|--|---------------|
| Diameter Over Dielectric(mm) | 32.7 |
| Diameter Over Jacket(mm) | 38.4 |
| Inner Conductor OD(mm) | 13.1 |
| Outer Conductor OD(mm) | 35.8 |
| Weight (kg/m) | 0.99 |
| Min bending radius single bending (mm) | 200 |
| Min bending radius repeated bending (mm) | 380 |
| Tensile strength(N) | 2500 |
| Operating temperature (deg Celcius) | -40 °C~+70 °C |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 200 |
| VSWR | 800~1000 | 1.09 |
| | 1700~2300 | 1.09 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 0.81 | 13.00 | 2000 | 4.38 | 2.65 |
| 150 | 1.01 | 10.50 | 2100 | 4.50 | 2.55 |
| 200 | 1.18 | 9.05 | 2200 | 4.64 | 2.50 |
| 300 | 1.48 | 7.30 | 2400 | 4.91 | 2.30 |
| 450 | 1.84 | 5.90 | 2500 | 5.02 | 2.25 |
| 500 | 1.95 | 5.60 | 2700 | 5.27 | 2.20 |
| 700 | 2.36 | 4.80 | 3000 | 5.62 | 2.10 |
| 800 | 2.41 | 4.35 | | | |
| 900 | 2.72 | 4.10 | | | |
| 1000 | 2.90 | 3.85 | | | |
| 1500 | 3.68 | 3.10 | | | |
| 1800 | 4.11 | 2.80 | | | |

Note: Maximum value shall be 105% of the nominal value.

www.xtra-ltd.co

(Corrugated Aluminum tube)

HCTALY(Z)-50-22(7/8" AL)

Mechanical Properties

| | |
|--|-----------|
| Diameter Over Dielectric(mm) | 22.2 |
| Diameter Over Jacket(mm) | 25 |
| Inner Conductor OD(mm) | 9 |
| Outer Conductor OD(mm) | 25 |
| Weight (kg/m) | 0.37 |
| Min bending radius single bending (mm) | 150 |
| Min bending radius repeated bending (mm) | 260 |
| Tensile strength(N) | 850 |
| Operating temperature (deg Celcius) | -40℃~+70℃ |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 82 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ•km |
| Peak power rating (kW) | | 40 |
| VSWR | 800~1000 | 1.10 |
| | 1700~2300 | 1.10 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 1.25 | 8.60 | 2000 | 6.60 | 1.68 |
| 150 | 1.56 | 7.10 | 2100 | 6.79 | 1.63 |
| 200 | 1.81 | 6.00 | 2200 | 6.98 | 1.59 |
| 300 | 2.25 | 4.83 | 2400 | 7.36 | 1.50 |
| 450 | 2.82 | 3.88 | 2500 | 7.54 | 1.47 |
| 500 | 2.98 | 3.67 | 2700 | 7.90 | 1.41 |
| 700 | 3.60 | 3.02 | 3000 | 8.43 | 1.33 |
| 800 | 3.89 | 2.83 | | | |
| 900 | 4.16 | 2.65 | | | |
| 1000 | 4.42 | 2.50 | | | |
| 1500 | 5.58 | 1.99 | | | |
| 1800 | 6.19 | 1.79 | | | |

Note: Maximum value shall be 105% of the nominal value.



(Corrugated Aluminum tube)

HCAALY(Z)-50-12(1/2" AL)

Mechanical Properties

| | |
|--|-----------|
| Diameter Over Dielectric(mm) | 12.2 |
| Diameter Over Jacket(mm) | 15.7 |
| Inner Conductor OD(mm) | 4.8 |
| Outer Conductor OD(mm) | 14.0 |
| Weight (kg/m) | 0.16 |
| Min bending radius single bending (mm) | 90 |
| Min bending radius repeated bending (mm) | 145 |
| Tensile strength(N) | 1000 |
| Operating temperature (deg Celcius) | -40℃~+70℃ |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 82 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 40 |
| VSWR | 800~1000 | 1.10 |
| | 1700~2300 | 1.10 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 2.47 | 3.94 | 2000 | 11.73 | 0.80 |
| 150 | 3.04 | 3.10 | 2100 | 11.97 | 0.78 |
| 200 | 3.52 | 2.81 | 2200 | 12.34 | 0.77 |
| 300 | 4.37 | 2.23 | 2400 | 13.10 | 0.73 |
| 450 | 5.23 | 1.80 | 2500 | 13.24 | 0.71 |
| 500 | 5.61 | 1.71 | 2700 | 13.69 | 0.68 |
| 700 | 6.75 | 1.45 | 3000 | 14.27 | 0.64 |
| 800 | 7.17 | 1.33 | | | |
| 900 | 7.67 | 1.25 | | | |
| 1000 | 8.13 | 1.18 | | | |
| 1500 | 9.92 | 0.95 | | | |
| 1800 | 11.08 | 0.86 | | | |

Note: Maximum value shall be 105% of the nominal value.

(Corrugated Aluminum tube)

HCTALY(Z)-50-23(7/8"AL low loss)

Mechanical Properties

| | |
|--|-----------|
| Diameter Over Dielectric(mm) | 22.8 |
| Diameter Over Jacket(mm) | 27.9 |
| Inner Conductor OD(mm) | 9.4 |
| Outer Conductor OD(mm) | 25.2 |
| Weight (kg/m) | 0.55 |
| Min bending radius single bending (mm) | 160 |
| Min bending radius repeated bending (mm) | 285 |
| Tensile strength(N) | 850 |
| Operating temperature (deg Celcius) | -40℃~+70℃ |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 91 |
| VSWR | 800~1000 | 1.07 |
| | 1700~2300 | 1.07 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 1.24 | 9.10 | 2000 | 6.34 | 1.86 |
| 150 | 1.54 | 7.35 | 2100 | 6.52 | 1.79 |
| 200 | 1.79 | 6.34 | 2200 | 6.70 | 1.75 |
| 300 | 2.23 | 5.11 | 2400 | 7.02 | 1.61 |
| 450 | 2.77 | 4.13 | 2500 | 7.21 | 1.58 |
| 500 | 2.93 | 3.92 | 2700 | 7.54 | 1.54 |
| 700 | 3.51 | 3.36 | 3000 | 8.02 | 1.47 |
| 800 | 3.78 | 3.05 | | | |
| 900 | 4.03 | 2.87 | | | |
| 1000 | 4.28 | 2.70 | | | |
| 1500 | 5.38 | 2.17 | | | |
| 1800 | 5.97 | 1.96 | | | |

Note: Maximum value shall be 105% of the nominal value.

(Corrugated Aluminum tube)

HCTALY(Z)-50-32(1-1/4" AL)

Mechanical Properties

| | |
|--|---------------|
| Diameter Over Dielectric(mm) | 32.3 |
| Diameter Over Jacket(mm) | 38.6 |
| Inner Conductor OD(mm) | 13.1 |
| Outer Conductor OD(mm) | 35.8 |
| Weight (kg/m) | 0.65 |
| Min bending radius single bending (mm) | 250 |
| Min bending radius repeated bending (mm) | 300 |
| Tensile strength(N) | 2000 |
| Operating temperature (deg Celcius) | -40 °C~+70 °C |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 200 |
| VSWR | 800~1000 | 1.11 |
| | 1700~2300 | 1.11 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 0.91 | 11.70 | 2000 | 5.19 | 2.39 |
| 150 | 1.13 | 9.45 | 2100 | 5.35 | 2.30 |
| 200 | 1.32 | 8.15 | 2200 | 5.52 | 2.25 |
| 300 | 1.66 | 6.57 | 2400 | 5.84 | 2.07 |
| 450 | 2.1 | 5.31 | 2500 | 5.99 | 2.03 |
| 500 | 2.23 | 5.04 | 2700 | 6.3 | 1.98 |
| 700 | 2.71 | 4.32 | 3000 | 6.76 | 1.89 |
| 800 | 2.94 | 3.92 | | | |
| 900 | 3.16 | 3.69 | | | |
| 1000 | 3.36 | 3.47 | | | |
| 1500 | 4.32 | 2.79 | | | |
| 1800 | 4.85 | 2.52 | | | |

Note: Maximum value shall be 105% of the nominal value.

(Super flexible Cable)

HRCAY(Z)-50-9(1/2" S)

Mechanical Properties

| | |
|--|-----------|
| Diameter Over Dielectric(mm) | 9 |
| Diameter Over Jacket(mm) | 13.3 |
| Inner Conductor OD(mm) | 3.6 |
| Outer Conductor OD(mm) | 12.1 |
| Weight (kg/m) | 0.2 |
| Min bending radius single bending (mm) | 17 |
| Min bending radius repeated bending (mm) | 55 |
| Tensile strength(N) | 800 |
| Operating temperature (deg Celcius) | -40℃~+70℃ |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 82 |
| Capacitance (PF/m) | | 81 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 20 |
| VSWR | 800~1000 | 1.40 |
| | 1700~2300 | 1.40 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 3.07 | 2.60 | 2000 | 16.35 | 0.53 |
| 150 | 3.83 | 2.10 | 2100 | 16.83 | 0.51 |
| 200 | 4.48 | 1.81 | 2200 | 17.30 | 0.50 |
| 300 | 5.61 | 1.46 | 2400 | 18.59 | 0.46 |
| 450 | 7.02 | 1.18 | 2500 | 18.65 | 0.45 |
| 500 | 7.44 | 1.12 | 2700 | 19.52 | 0.44 |
| 700 | 8.93 | 0.96 | 3000 | 20.79 | 0.42 |
| 800 | 9.68 | 0.87 | | | |
| 900 | 10.35 | 0.82 | | | |
| 1000 | 10.98 | 0.77 | | | |
| 1500 | 13.84 | 0.62 | | | |
| 1800 | 15.38 | 0.56 | | | |

Note: Maximum value shall be 105% of the nominal value.



(Super flexible Cable)

HRY(Z)-50-5(1/4" S)

Mechanical Properties

| | |
|--|-----------|
| Diameter Over Dielectric(mm) | 4.85 |
| Diameter Over Jacket(mm) | 7.5 |
| Inner Conductor OD(mm) | 1.9 |
| Outer Conductor OD(mm) | 6.4 |
| Weight (kg/m) | 0.095 |
| Min bending radius single bending (mm) | 12 |
| Min bending radius repeated bending (mm) | 25 |
| Tensile strength(N) | 680 |
| Operating temperature (deg Celcius) | -40℃~+70℃ |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 6.4 |
| VSWR | 800~1000 | 1.12 |
| | 1700~2300 | 1.12 |

Attenuation values and power rating

| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 5.86 | 0.858 | 2000 | 29.37 | 0.175 |
| 150 | 7.23 | 0.693 | 2100 | 30.19 | 0.168 |
| 200 | 8.41 | 0.597 | 2200 | 31.01 | 0.165 |
| 300 | 10.42 | 0.482 | 2400 | 32.61 | 0.152 |
| 450 | 12.93 | 0.389 | 2500 | 33.36 | 0.149 |
| 500 | 13.68 | 0.370 | 2700 | 34.87 | 0.145 |
| 700 | 16.39 | 0.317 | 3000 | 37.07 | 0.139 |
| 800 | 17.64 | 0.287 | | | |
| 900 | 18.82 | 0.271 | | | |
| 1000 | 19.93 | 0.254 | | | |
| 1500 | 24.97 | 0.205 | | | |
| 1800 | 27.67 | 0.185 | | | |

Note: Maximum value shall be 105% of the nominal value.

www.xtra-ltd.com

Jumpers

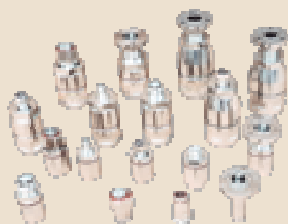


- Xtra Corp jumpers have the following advantages:
Low VSWR excellent flexibility, Easy Attachment and Water-proof.

Characteristic Chart

| Cable size | | 1/2"S | 1/4"S | 1/2" |
|--------------------------------------|--------------|-------------|-------------|-------------|
| Item | | | | |
| Characteristic impedance(Ω) | | 50 | 50 | 50 |
| Insulated resistance(M Ω) | | ≥ 5000 | ≥ 5000 | ≥ 5000 |
| Dielectric strength(V) | | 2500 | 2000 | 2500 |
| Frequency range(GHz) | | 0~3 | 0~3 | 0~3 |
| VSWR | 0~3000MHz | ≤ 1.1 | ≤ 1.1 | ≤ 1.1 |
| | 800~1000MHz | ≤ 1.06 | ≤ 1.06 | ≤ 1.06 |
| | 1700~2500MHz | ≤ 1.08 | ≤ 1.08 | ≤ 1.08 |
| Work voltage(V) | | 1500 | 1500 | 1500 |

Connectors



- Connectors provided by Xtra Corp have the following advantages:
Low VSWR, Low Intermodulation, Easy Attachment and Water-proof.

Characteristic Chart

| Cable size | | 1/2"S | 1/4"S | 1/2" |
|--|------------------------------|---|---------------------------------------|-------------------|
| Item | | | | |
| Characteristic impedance(Ω) | | 50 | 50 | 50 |
| Frequency range | | 1M~11GHz | 0~18GHz | 0~3GHz |
| Dielectric strength(Min at sea level)(V) | | 2500 | 500 | 1500 |
| VSWR | | $\leq 1.06(1M-3G)$ $\leq 1.08(3G-11G)$ | $\leq 1.2(0-3G)$ $\leq 1.4(3-18G)$ | $\leq 1.15(0-3G)$ |
| Contact resistance | Inner conductor(m Ω) | ≤ 0.8 | ≤ 5 | ≤ 5 |
| | Outer conductor(m Ω) | ≤ 0.4 | ≤ 2.5 | ≤ 2.5 |
| Insulated resistance(m Ω) | | ≥ 5000 | ≥ 5000 | ≥ 5000 |
| Insertion loss(dB) | | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 |
| Center retentivity(N) | | > 0.6 | > 0.28 | > 0.57 |
| Durability(cycles) | | ≥ 500 | ≥ 500 | ≥ 500 |

(Super flexible Cable)

HHTAY(Z)-50-21(7/8" S)

Mechanical Properties

| | |
|--|-----------------|
| Diameter Over Dielectric(mm) | 22.8 |
| Diameter Over Jacket(mm) | 27.5 |
| Inner Conductor OD(mm) | 9.4 |
| Outer Conductor OD(mm) | 24.9 |
| Weight (kg/m) | 0.55 |
| Min bending radius single bending (mm) | 90 |
| Min bending radius repeated bending (mm) | 130 |
| Tensile strength(N) | 1500 |
| Operating temperature (deg Celcius) | -40 °C ~ +70 °C |

Electrical Properties

| | | |
|---|-----------|-----------|
| Charateristic impedance (Ω) | | 50±1 |
| Relative propagation velocity (%) | | 88 |
| Capacitance (PF/m) | | 76 |
| Minimum insulation resistance(DC 500V 1 minute) | | 3000MΩ·km |
| Peak power rating (kW) | | 91 |
| VSWR | 800~1000 | 1.09 |
| | 1700~2300 | 1.09 |

Attenuation values and power rating

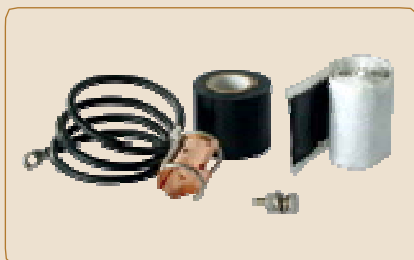
| Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) | Frequency (MHz) | Attenuation (db/100m) | Power rating (kW) |
|-----------------|-----------------------|-------------------|-----------------|-----------------------|-------------------|
| 100 | 1.33 | 6.50 | 2000 | 6.68 | 1.33 |
| 150 | 1.64 | 5.25 | 2100 | 6.88 | 1.28 |
| 200 | 1.91 | 4.53 | 2200 | 7.07 | 1.25 |
| 300 | 2.36 | 3.65 | 2400 | 7.44 | 1.15 |
| 450 | 2.94 | 2.95 | 2500 | 7.60 | 1.13 |
| 500 | 3.11 | 2.80 | 2700 | 7.95 | 1.10 |
| 700 | 3.73 | 2.40 | 3000 | 8.45 | 1.05 |
| 800 | 4.01 | 2.18 | | | |
| 900 | 4.27 | 2.05 | | | |
| 1000 | 4.53 | 1.93 | | | |
| 1500 | 5.69 | 1.55 | | | |
| 1800 | 6.30 | 1.40 | | | |

Note: Maximum value shall be 105% of the nominal value.

Grounding kits

- Various indoor & outdoor grounding kits are applied to the grounding protecting of various feeders, installation easily and performance reliable.

- Spring type outdoor grounding kits



| Item | Description |
|--------------|--------------------------------|
| 1/2"series | 1/2"ground kits used outdoor |
| 7/8"series | 7/8"ground kits used outdoor |
| 1-1/4"series | 1-1/4"ground kits used outdoor |
| 1-5/8"series | 1-5/8"ground kits used outdoor |

- Framework type outdoor grounding kits



| Item | Description |
|--------------|--------------------------------|
| 1/2"series | 1/2"ground kits used outdoor |
| 7/8"series | 7/8"ground kits used outdoor |
| 1-1/4"series | 1-1/4"ground kits used outdoor |
| 1-5/8"series | 1-5/8"ground kits used outdoor |

- Indoor grounding kits



| Item | Description |
|-------------|---------------------------------------|
| Common type | Indoor ground kits |
| Common type | Indoor ground kits(with Ccopper nose) |

Cable clamps

- Feeder clamps are made of stainless steel and Anti-UV rubber, adopting special technic of coating, widely used in the fix of RF cables. Applied in different operation temperature.

● Through type



| Item | Type | Φ D(mm) |
|------|--------|---------|
| 1/2" | 1*1/2" | 16 |
| 1/2" | 2*1/2" | 16 |
| 1/2" | 3*1/2" | 16 |
| 7/8" | 1*7/8" | 27.5 |
| 7/8" | 2*7/8" | 27.5 |
| 7/8" | 3*7/8" | 27.5 |
| 7/8" | 4*7/8" | 27.5 |

● Wall attachment type



| Item | Type | Φ D(mm) |
|------|--------|---------|
| 1/2" | 1*1/2" | 16 |
| 1/2" | 2*1/2" | 16 |
| 7/8" | 1*7/8" | 27.5 |
| 7/8" | 2*7/8" | 27.5 |
| 7/8" | 3*7/8" | 27.5 |

● Anchor ear type



| Item | Type | Φ D(mm) |
|------|--------|---------|
| 1/2" | 1*1/2" | 16 |
| 7/8" | 1*7/8" | 27.5 |

● Throat hoop type



| Item | Type | Φ D(mm) |
|------|--------|---------|
| 1/2" | 1*1/2" | 16 |
| 7/8" | 1*7/8" | 27.5 |
| 7/8" | 6*7/8" | 27.5 |

● Shackle type



| Item | Type | Φ D(mm) |
|------|--------|---------|
| 7/8" | 1*7/8" | 27.5 |
| 7/8" | 2*7/8" | 27.5 |
| 7/8" | 3*7/8" | 27.5 |

Other Accessories

- Grounding bracket



- Tie wraps



- Daub & Adhesive tape



- Arrester



- Wall entry system



- Load



- Cold shrink weather proofing kits



- Hoisting grips



- Feeder markin



