

## **Radiating Cable**



### **Product Specification**

### **50 Ohm Radiating Cable, 1-1/4" -** AR114FV50

Fire Retardant Cable  1-1/4", Low-Smoke, Non-Halogenated, Fire Retardant Jacket, Conforms to IEC332-1, IEC332-3C, UL 1685-12, FT4/IEEE1202 (NFPA-130), CMG-LS  Features & Benefits  100% Made in the USA (Buy America, Title 49 Compliant)  NFPA-130/NFPA-502 Compliant (2017 Edition) & CMG-LS Listed  No Water Migration 15 Year Warranty  Indication of Slot Alignment None  Recommended Hanger Spacing, ft (m) 6 (2)  Minimum Distance to Wall, in (mm) 2 (50.8)  Jacket Color Black  Physical Dimensions  Center Diameter, in (mm) 1.498 (38.05)  Diameter Over Dielectric, in (mm) 1.517 (38.53)  Maximum Diameter Over Jacket, in (mm) 1.517 (38.53)  Maximum Diameter Over Jacket, in (mm) 1.616 (41.05)  Center Conductor Solid Copper Tube  Dual Slotted Solid Aluminum Tube  Electrical Characteristics  Maximum Frequency, GHz 3.4  Peak Power Rating, KW 211  DC Resistance, Ohms/1,000 ft (1,000 m)  Center 0.30 (0.99)  Outer 0.16 (0.52)  DC Breakdown, kV 9  Capacitance, pF/ft (m) 22.3 (73.16)  Inductance, mH/ft (m) 22.3 (73.16)  Inductance, mH/ft (m) 22.3 (73.16)  Impedance, Ohms  VSWR min, (dB) 1.38 (16.0)  VSWR min-band, (dB) 1.30 (17.7)  Impedance, Ohms  Velocity of Propagation 91%  Stop Bands, MHz 1396 - 1399  Mechanical Characteristics  Minimum Bend Radius, in (mm) - Single 6 (152.4)  Cable Weight, Ib/ft (kg/m) 0.60 (0.90)  Bending Moment, ft Ib (N m) 50 (67.5)  Tensile Strength, Ib (kg) 1,124 (511)  Flat Plate Crush, Ib/in (kg/mm)  Recommended Install Temp., °F (°C) -10° to 170° (-23° to 77°)	Description	Product Number				
1-1/4", Low-Smoke, Non-Halogenated, Fire Retardant Jacket, Conforms to IEC332-1, IEC332-3C, UL 1685-12, IET4/IEEE1202 (NFPA-130), CMG-LS		Product Number				
AR114FV50	Fire Retardant Cable					
Features & Benefits	1-1/4", Low-Smoke, Non-Halogenated, Fire Retardant Jacket, Conforms to IEC332-1, IEC332-3C, UL1685-12,	AR114FV50				
100% Made in the USA (Buy America, Title 49 Compliant)   NFPA-130/NFPA-502 Compliant (2017 Edition) & CMG-LS Listed   No Water Migration 15 Year Warranty     Indication of Slot Alignment						
NFPA-130/NFPA-502 Compliant (2017 Edition) & CMG-LS Listed						
No Water Migration 15 Year Warranty						
Indication of Slot Alignment Recommended Hanger Spacing, ft (m) Recommended Radius, in (mm) Recommended Radius Recommended Install Temp., °F (°C) Respace Rading Recommended Radius, in (mm) Recommended Install Temp., °F (°C) Resistance, Cloru (km) Recommended Install Temp., °F (°C) Resistance, Closses R	NFPA-130/NFPA-502 Compliant (2017 Edition) & CMG-LS Listed					
Recommended Hanger Spacing, ft (m)  Minimum Distance to Wall, in (mm)  Jacket Color  Physical Dimensions  Center Diameter, in (mm)  Diameter Over Dielectric, in (mm)  Diameter Over Outer Conductor, in (mm)  Maximum Diameter Over Jacket, in (mm)  Center Conductor  Outer Conductor  Solid Copper Tube  Dual Slotted Solid Aluminum Tube  Electrical Characteristics  Maximum Frequency, GHz  Peak Power Rating, KW  DC Resistance, Ohms/1,000 ft (1,000 m)  Center  Outer  Outer  Outer  D.16 (0.52)  DC Breakdown, kV  Capacitance, pF/ft (m)  Inductance, mH/ft (m)  Jacket Spark, kV RMS  VSWR min, (dB)  VSWR in-band, (dB)  Ingedance, Ohms  Velocity of Propagation  Stop Bands, MHz  Maximum Bend Radius, in (mm) - Single  Cable Weight, Ib/ft (kg/m)  Bending Moment, ft Ib (N m)  Tensile Strength, Ib/in (kg/mm)  Recommended Install Temp., °F (°C)  -10° to 170° (-23° to 77°)	No Water Migration 15 Year Warranty					
Minimum Distance to Wall, in (mm)  Jacket Color  Physical Dimensions  Center Diameter, in (mm)  Diameter Over Dielectric, in (mm)  Diameter Over Outer Conductor, in (mm)  Maximum Diameter Over Jacket, in (mm)  Center Conductor  Outer Conductor  Solid Copper Tube  Dual Slotted Solid Aluminum Tube  Electrical Characteristics  Maximum Frequency, GHz Peak Power Rating, KW  DC Resistance, Ohms/1,000 ft (1,000 m)  Center  Outer  Outer  Outer  Outer  D.16 (0.52)  DC Breakdown, kV  Capacitance, pF/ft (m)  Inductance, mH/ft (m)  Jacket Spark, kV RMS  VSWR min, (dB)  VSWR in-band, (dB)  Inguedance, Ohms  Velocity of Propagation  Stop Bands, MHz  Mechanical Characteristics  Minimum Bend Radius, in (mm) - Single  Cable Weight, Ib/ft (kg/m)  Bending Moment, ft Ib (N m)  Tensile Strength, Ib/in (kg/mm)  Recommended Install Temp., °F (°C)  -10° to 170° (-23° to 77°)	Indication of Slot Alignment	None				
Black   Physical Dimensions   Diameter (provided provided provid	Recommended Hanger Spacing, ft (m)	6 (2)				
Physical Dimensions           Center Diameter, in (mm)         0.589 (14.96)           Diameter Over Dielectric, in (mm)         1.498 (38.05)           Diameter Over Outer Conductor, in (mm)         1.517 (38.53)           Maximum Diameter Over Jacket, in (mm)         1.616 (41.05)           Center Conductor         Solid Copper Tube           Outer Conductor         Dual Slotted           Solid Aluminum Tube         Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz           Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)	Minimum Distance to Wall, in (mm)	2 (50.8)				
Center Diameter, in (mm)         0.589 (14.96)           Diameter Over Dielectric, in (mm)         1.498 (38.05)           Diameter Over Outer Conductor, in (mm)         1.517 (38.53)           Maximum Diameter Over Jacket, in (mm)         1.616 (41.05)           Center Conductor         Solid Copper Tube           Outer Conductor         Dual Slotted           Solid Aluminum Tube         Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz           Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.38 (16.0)           VSWR in-band, MHz         1.39 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1.396 - 1399           Mechanical Characteristics	Jacket Color	Black				
Diameter Over Dielectric, in (mm)         1.498 (38.05)           Diameter Over Outer Conductor, in (mm)         1.517 (38.53)           Maximum Diameter Over Jacket, in (mm)         1.616 (41.05)           Center Conductor         Solid Copper Tube           Outer Conductor         Dual Slotted           Solid Aluminum Tube         Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz           Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Center         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics           Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.6	Physical Dimensions					
Diameter Over Outer Conductor, in (mm)         1.517 (38.53)           Maximum Diameter Over Jacket, in (mm)         1.616 (41.05)           Center Conductor         Solid Copper Tube           Outer Conductor         Dual Slotted           Solid Aluminum Tube         Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz           Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics           Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.60 (0.90)           Bending Moment, ft Ib (N m)         50 (67.5)           Tensile Strength, Ib (kg)	Center Diameter, in (mm)	0.589 (14.96)				
Maximum Diameter Over Jacket, in (mm)         1.616 (41.05)           Center Conductor         Solid Copper Tube           Outer Conductor         Dual Slotted           Solid Aluminum Tube         Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz           Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics           Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.60 (0.90)           Bending Moment, ft Ib (N m)         50 (67.5)           Tensile Strength, Ib (kg)         1,124 (511)           Flat Plate Crush, Ib/in (kg/mm)         10°	Diameter Over Dielectric, in (mm)	1.498 (38.05)				
Center Conductor         Solid Copper Tube           Outer Conductor         Dual Slotted           Solid Aluminum Tube         Solid Aluminum Tube           Electrical Characteristics           Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Center         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics           Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.60 (0.90)           Bending Moment, ft Ib (N m)         50 (67.5)           Tensile Strength, Ib (kg)         1,124 (511)           Flat Plate Crush, Ib/in (kg/mm)         120 (2.18)           Recom	Diameter Over Outer Conductor, in (mm)	1.517 (38.53)				
Outer Conductor         Dual Slotted Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, lb/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, lb/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	Maximum Diameter Over Jacket, in (mm)					
Outer Conductor         Dual Slotted Solid Aluminum Tube           Electrical Characteristics         Maximum Frequency, GHz         3.4           Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, lb/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, lb/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	Center Conductor	,				
Solid Aluminum Tube						
Maximum Frequency, GHz       3.4         Peak Power Rating, KW       211         DC Resistance, Ohms/1,000 ft (1,000 m)       0.30 (0.99)         Outer       0.16 (0.52)         DC Breakdown, kV       9         Capacitance, pF/ft (m)       22.3 (73.16)         Inductance, mH/ft (m)       0.056 (0.184)         Jacket Spark, kV RMS       8         VSWR min, (dB)       1.38 (16.0)         VSWR in-band, (dB)       1.30 (17.7)         Impedance, Ohms       50 ± 2         Velocity of Propagation       91%         Stop Bands, MHz       1396 - 1399         Mechanical Characteristics       Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, Ib/ft (kg/m)       0.60 (0.90)         Bending Moment, ft Ib (N m)       50 (67.5)         Tensile Strength, Ib (kg)       1,124 (511)         Flat Plate Crush, Ib/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Outer Conductor	Solid Aluminum Tube				
Peak Power Rating, KW         211           DC Resistance, Ohms/1,000 ft (1,000 m)         0.30 (0.99)           Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, Ib/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	Electrical Characteristics					
DC Resistance, Ohms/1,000 ft (1,000 m)  Center  O.30 (0.99)  Outer  O.16 (0.52)  DC Breakdown, kV  Gapacitance, pF/ft (m)  Inductance, mH/ft (m)  Jacket Spark, kV RMS  VSWR min, (dB)  VSWR in-band, (dB)  Inductance, Ohms  Velocity of Propagation  Stop Bands, MHz  Mechanical Characteristics  Minimum Bend Radius, in (mm) - Single  Cable Weight, Ib/ft (kg/m)  Bending Moment, ft Ib (N m)  Tensile Strength, Ib (kg)  Flat Plate Crush, Ib/in (kg/mm)  Recommended Install Temp., °F (°C)  O.16 (0.99)  O.30 (0.99)  0.30 (0.99)  0.005 (0.184)  1.38 (16.0)  1.38 (16.0)  1.30 (17.7)  1.39 (17.7)  1.396 - 1399  6 (152.4)  0.60 (0.90)  1.124 (511)  Flat Plate Crush, Ib/in (kg/mm)  Recommended Install Temp., °F (°C)  -10° to 170° (-23° to 77°)	Maximum Frequency, GHz	3.4				
Center       0.30 (0.99)         Outer       0.16 (0.52)         DC Breakdown, kV       9         Capacitance, pF/ft (m)       22.3 (73.16)         Inductance, mH/ft (m)       0.056 (0.184)         Jacket Spark, kV RMS       8         VSWR min, (dB)       1.38 (16.0)         VSWR in-band, (dB)       1.30 (17.7)         Impedance, Ohms       50 ± 2         Velocity of Propagation       91%         Stop Bands, MHz       1396 - 1399         Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, Ib/ft (kg/m)       0.60 (0.90)         Bending Moment, ft lb (N m)       50 (67.5)         Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Peak Power Rating, KW	211				
Outer         0.16 (0.52)           DC Breakdown, kV         9           Capacitance, pF/ft (m)         22.3 (73.16)           Inductance, mH/ft (m)         0.056 (0.184)           Jacket Spark, kV RMS         8           VSWR min, (dB)         1.38 (16.0)           VSWR in-band, (dB)         1.30 (17.7)           Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, lb/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	DC Resistance, Ohms/1,000 ft (1,000 m)					
DC Breakdown, kV Capacitance, pF/ft (m) Inductance, mH/ft (m) Jacket Spark, kV RMS VSWR min, (dB) VSWR in-band, (dB) Impedance, Ohms Velocity of Propagation Stop Bands, MHz Mechanical Characteristics Minimum Bend Radius, in (mm) - Single Cable Weight, lb/ft (kg/m) Bending Moment, ft lb (N m) Tensile Strength, lb (kg) Recommended Install Temp., °F (°C)  22.3 (73.16) 1.24 (511) 1.38 (16.0) 1.38 (16.0) 1.38 (16.0) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.39 (17.7) 1.30 (17.7) 1.30 (17.7) 1.30 (17.7) 1.31 (17.7) 1.32 (17.7) 1.33 (16.0) 1.38 (16.0) 1.38 (16.0) 1.39 (17.7) 1.30 (17.7) 1.30 (17.7) 1.30 (17.7) 1.31 (17.7) 1.32 (17.7) 1.33 (16.0) 1.30 (17.7)	Center	0.30 (0.99)				
Capacitance, pF/ft (m)       22.3 (73.16)         Inductance, mH/ft (m)       0.056 (0.184)         Jacket Spark, kV RMS       8         VSWR min, (dB)       1.38 (16.0)         VSWR in-band, (dB)       1.30 (17.7)         Impedance, Ohms       50 ± 2         Velocity of Propagation       91%         Stop Bands, MHz       1396 - 1399         Mechanical Characteristics       Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, Ib/ft (kg/m)       0.60 (0.90)         Bending Moment, ft Ib (N m)       50 (67.5)         Tensile Strength, Ib (kg)       1,124 (511)         Flat Plate Crush, Ib/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Outer	0.16 (0.52)				
Inductance, mH/ft (m)  Jacket Spark, kV RMS  8  VSWR min, (dB)  1.38 (16.0)  VSWR in-band, (dB)  Inpedance, Ohms  Velocity of Propagation  Stop Bands, MHz  Mechanical Characteristics  Minimum Bend Radius, in (mm) - Single  Cable Weight, Ib/ft (kg/m)  Bending Moment, ft Ib (N m)  Tensile Strength, Ib (kg)  Flat Plate Crush, Ib/in (kg/mm)  Recommended Install Temp., °F (°C)  1.38 (16.0)  1.39 (17.7)  1.39 (17.7)  1.39 (17.7)  1.39 (17.7)  1.30 (17.7)  1.30 (17.7)  1.30 (17.7)  1.30 (17.7)  1.30 (17.7)  1.30 (17.7)  1.31 (17.7)  1.32 (2.18)  1.33 (16.0)  1.32 (2.18)  1.33 (16.0)  1.34 (16.0)  1.35 (16.0)  1.30 (17.7)  1.30 (17.7)  1.30 (17.7)  1.31 (17.7)  1.32 (2.18)  1.33 (16.0)  1.32 (2.18)  1.33 (16.0)  1.34 (16.0)  1.35 (16.0)  1.36 (17.7)	DC Breakdown, kV	9				
Jacket Spark, kV RMS       8         VSWR min, (dB)       1.38 (16.0)         VSWR in-band, (dB)       1.30 (17.7)         Impedance, Ohms       50 ± 2         Velocity of Propagation       91%         Stop Bands, MHz       1396 - 1399         Mechanical Characteristics       Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, Ib/ft (kg/m)       0.60 (0.90)         Bending Moment, ft lb (N m)       50 (67.5)         Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Capacitance, pF/ft (m)	22.3 (73.16)				
VSWR min, (dB)       1.38 (16.0)         VSWR in-band, (dB)       1.30 (17.7)         Impedance, Ohms       50 ± 2         Velocity of Propagation       91%         Stop Bands, MHz       1396 - 1399         Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, Ib/ft (kg/m)       0.60 (0.90)         Bending Moment, ft Ib (N m)       50 (67.5)         Tensile Strength, Ib (kg)       1,124 (511)         Flat Plate Crush, Ib/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Inductance, mH/ft (m)	0.056 (0.184)				
VSWR in-band, (dB)       1.30 (17.7)         Impedance, Ohms       50 ± 2         Velocity of Propagation       91%         Stop Bands, MHz       1396 - 1399         Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, Ib/ft (kg/m)       0.60 (0.90)         Bending Moment, ft Ib (N m)       50 (67.5)         Tensile Strength, Ib (kg)       1,124 (511)         Flat Plate Crush, Ib/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Jacket Spark, kV RMS	8				
Impedance, Ohms         50 ± 2           Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, Ib/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, lb/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	VSWR min, (dB)	1.38 (16.0)				
Velocity of Propagation         91%           Stop Bands, MHz         1396 - 1399           Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, lb/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, lb/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	VSWR in-band, (dB)	1.30 (17.7)				
Stop Bands, MHz       1396 - 1399         Mechanical Characteristics         Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, lb/ft (kg/m)       0.60 (0.90)         Bending Moment, ft lb (N m)       50 (67.5)         Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Impedance, Ohms	50 ± 2				
Mechanical Characteristics           Minimum Bend Radius, in (mm) - Single         6 (152.4)           Cable Weight, lb/ft (kg/m)         0.60 (0.90)           Bending Moment, ft lb (N m)         50 (67.5)           Tensile Strength, lb (kg)         1,124 (511)           Flat Plate Crush, lb/in (kg/mm)         122 (2.18)           Recommended Install Temp., °F (°C)         -10° to 170° (-23° to 77°)	Velocity of Propagation	91%				
Minimum Bend Radius, in (mm) - Single       6 (152.4)         Cable Weight, lb/ft (kg/m)       0.60 (0.90)         Bending Moment, ft lb (N m)       50 (67.5)         Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Stop Bands, MHz	1396 - 1399				
Cable Weight, lb/ft (kg/m)       0.60 (0.90)         Bending Moment, ft lb (N m)       50 (67.5)         Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Mechanical Characteristics					
Cable Weight, lb/ft (kg/m)       0.60 (0.90)         Bending Moment, ft lb (N m)       50 (67.5)         Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Minimum Bend Radius, in (mm) - Single	6 (152.4)				
Tensile Strength, lb (kg)       1,124 (511)         Flat Plate Crush, lb/in (kg/mm)       122 (2.18)         Recommended Install Temp., °F (°C)       -10° to 170° (-23° to 77°)	Cable Weight, lb/ft (kg/m)					
Flat Plate Crush, Ib/in (kg/mm) 122 (2.18) Recommended Install Temp., °F (°C) -10° to 170° (-23° to 77°)	Bending Moment, ft lb (N m)	50 (67.5)				
Recommended Install Temp., °F (°C) -10° to 170° (-23° to 77°)	Tensile Strength, lb (kg)	1,124 (511)				
Recommended Install Temp., °F (°C) -10° to 170° (-23° to 77°)	Flat Plate Crush, lb/in (kg/mm)	122 (2.18)				
	Recommended Install Temp., °F (°C)	-10° to 170° (-23° to 77°)				
Recommended Storage Temp., °F (°C)   -40° to 170° (-40° to 77°)	Recommended Storage Temp., °F (°C)	-40° to 170° (-40° to 77°)				
Recommended Operating Temp., °F (°C) -40° to 170° (-40° to 77°)	Recommended Operating Temp., °F (°C)	-40° to 170° (-40° to 77°)				
Regulatory Compliance/Certifications						
	RoHS 2011/65/EU Compliant					
TL 9000 H-V - All Cables designed and manufactured under this quality management system						

©2016 Trilogy Communications, Inc. All rights reserved. All trademarks identified by ® are registered trademarks of Trilogy Communications. All Specifications are subject to change without notice. See www.trilogycoax.com or call 800-TRILOGY for the most current information. Revised 08/23/18



Electrical Performance			
Frequency, MHz		uation dB/100 m	Coupling Loss 95%, dB
150	0.28	0.92	77 (80)
450	0.54	1.77	77 (80)
700	0.73	2.39	81 (83)
800	0.79	2.59	82 (84)
900	0.86	2.82	82 (84)
1000	0.96	3.15	84 (86)
1700	1.23	4.04	82 (85)
1800	1.28	4.20	84 (85)
1900	1.33	4.36	83 (85)
2000	1.38	4.53	84 (86)
2100	1.43	4.69	85 (87)
2200	1.47	4.82	85 (87)
2400	1.56	5.12	83 (84)
2600	1.65	5.41	84 (87)
2700	1.81	5.94	85 (87)

#### Notes:

- Coupling Loss and Attenuation Values are measured in accordance with the IEC 61196-4 Free Space Test Method
- Coupling Loss values are measured with a radial (below 1100 MHz) or orthogonal (above 1100 MHz) orientated dipole antenna
- The Coupling Loss values in parentheses are the mean values of all three spatial orientations (radial, parallel and orthogonal) of dipole antenna
- Coupling Loss Tolerance of ± 10 dB at 6 ft (2m), 95%
- Attenuation Tolerance of ± 10% at 68°F
- As is the case with all radiating cables, performance in RF confined areas may differ from values in a free space.

# **Trilogy AirCell® Cable**

Proud to be 100% Made in the USA

