

1-5/8" RADIAFLEX® RAY Cable, A-series

- RADIAFLEX® functions as a distributed antenna to provide communications in tunnels, mines and large building complexes and is the solution for any application in confined areas.
- Slots in the copper outer conductor allow a controlled portion of the internal RF energy to be radiated into the surrounding environment. Conversely, a signal transmitted near the cable will couple into the slots and be carried along the cable length.
- RADIAFLEX® is used for both one-way and two-way communication systems and because of its broadband capability, a single radiating cable can handle multiple communication systems simultaneously.
- This RADIAFLEX® radiating cable utilize a low-loss cellular polyethylene foam dielectric and a smooth copper outer conductor which offers a superior electrical performance together with good bending properties.

FEATURES / BENEFITS

- Broadband from 30 MHz to 1000 MHz
- Optimized for high frequencies and digital transmission
- Low coupling loss variation
- Sor tunnel applications

Technical Features

GENERAL SPECIFICATIONS

Size1-5/8°ELECTRICAL SPECIFICATIONSBAX. Operating FrequencyMHz1000.0Cable TypeRAYImpedanceOhm50 +/- 2Velocity%88.0CapacitancepF/m (pH/ft)76 (23.2)InductanceµH/m (µH/ft)0.19 (0058)DC-resistance inner conductorQ/km (Q/1000ft)1.62 (0.49)DC-resistance outer conductorQ/km (Q/1000ft)1.47 (0.45)Stop bandsMHz240-300.505-90.750-860MECHANICAL SPECIFICATIONSJacketJacketJacketOverlaptionInter Conductor MaterialOverlapting Copper SitipDiameter Outer Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)1200 (270)Diameter Outer Conductormm (in)1200 (270)Diameter Outer Conductormm (in)1200 (270)Immun Bending Radiusmm (in)1200 (270)Insile ForceN (b)1200 (270)Insile ForceN (b)1200 (270)Insile ForceN (b)1200 (270)Insile ForceN (b)130 (5)Exerce Force	GENERAL OF CONTOATIONS		
Max. Operating Frequency MHz 1000.0 Cable Type RAY Impedance Ohm 50 +/- 2 Velocity % 89.0 Capacitance pF/m (pF/ft) 76 (23.2) Inductance µH/m (µH/ft) 0.19 (0.058) DC-resistance outer conductor Ω/km (Ω/1000ft) 1.62 (0.49) DC-resistance outer conductor Ω/km (Ω/1000ft) 1.47 (0.45) Stop bands MHz 240-300, 500-590, 750-860 MECHANICAL SPECIFICATIONS Jacket JFN Jacket Description Halogn free, non corrosive, flame and fire retardant, low smoke, polyolefin Stot Design Group of slope slots at short intervals Inner Conductor Material Overlapping Copper Strip Diameter Inner Conductor mm (in) 17.6 (0.69) Diameter Outer Conductor mm (in) 442 (1.74) Diameter Inner Conductor M(ft) 1.01 (0.68) Cable Weight kg/m (lb/ft) 1.01 (0.68) Innum Bending Radius mm (in) 15 (5) Minimum Distance to Wall mm (in) 15 (Size		1-5/8"
Cable TypeRAYImpedanceOhm50 +/- 2Velocity%89.0CapacitancepF/m (pF/ft)76 (23.2)InductanceµH/m (µH/ft)0.19 (0.058)DC-resistance outer conductorΩ/km (Ω/1000ft)1.62 (0.49)DC-resistance outer conductorΩ/km (Ω/1000ft)1.47 (0.45)Stop bandsMHz240-300, 500-590, 750-860MECHANICAL SPECIFICATIONSJacketJFNJacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinStot basignGroups of slops slots at short intervalsInner Conductor MaterialOverlapping Copper TubeOuter Conductormm (in)44.2 (1.4)Diameter Ower Jacketmm (in)44.2 (1.4)Diameter Over Jacketmm (in)700 (28)Cable Weightkg/m (bft)1.01 (0.68)Tansile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80.5 (-94 to 185)TEMPERATURE SPECIFICATIONS"C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-70 to 85 (-94 to 185)	ELECTRICAL SPECIFICATIONS		
ImpedanceOhm50 +/- 2Velocity%89.0CapacitancepF/m (pF/t)76 (23.2)InductanceµH/m (µH/t)0.19 (0.058)DC-resistance onner conductorΩ/km (Ω/1000t)1.62 (0.49)DC-resistance outer conductorΩ/km (Ω/1000t)1.47 (0.45)Stop bandsMHz240-300, 500-590, 750-860MECHANICAL SPECIFICATIONSJFNJacketJFNJacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinSlot DesignGroups of slope slots at short intervalsOuter Conductor MaterialOverlapping Copper TubeOuter Conductormm (in)17.6 (0.69)Diameter Inner Conductormm (in)44.2 (1.74)Diameter Outer Conductormm (in)44.2 (1.74)Diameter Outer Conductormm (in)1.01 (0.68)Tensile ForceN (lb/t)1.01 (0.68)Tensile ForceN (lb/t)1.01 (0.68)Recommended Clamp Spacingmf (i)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONS"C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-70 to 85 (-94 to 185)	Max. Operating Frequency	MHz	1000.0
Velocity%89.0CapacitancepF/m (pF/ft)76 (23.2)Inductanceμ/l/m (μ/l/ft)0.19 (0.058)DC-resistance outer conductorΩ/km (Ω/1000ft)1.62 (0.49)DC-resistance outer conductorΩ/km (Ω/1000ft)1.47 (0.45)Stop bandsMHz240-300, 500-590, 750-860MECHANICAL SPECIFICATIONSJacketJFNJacket DescriptionMHzJFNStot DesignGroups of slope slots at short intervalsInner Conductor MaterialOverlapping Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter Outer Conductormm (in)44.2 (1.74)Diameter Outer Conductormm (in)1.00 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Brance to Wallmn (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage TemperatureC(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-70 to 85 (-94 to 185)	Cable Type		RAY
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InductanceμH/m (μH/t)0.19 (0.058)DC-resistance inner conductorΩ/km (Ω/1000ft)1.62 (0.49)DC-resistance outer conductorΩ/km (Ω/1000ft)1.47 (0.45)Stop bandsMHz240-300, 500-590, 750-860MECCHANICAL SPECIFICATIONSJacketJFNJacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinSito DesignGroups of slope slots at short intervalsInner Conductor MaterialOverlapping Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter over Jacketmm (in)44.2 (1.74)Diameter over Jacketmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (it)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)-70 to 85 (-94 to 185)installation Temperature°C(°F)-25 to 60 (-13 to 140)	Velocity	%	89.0
DC-resistance inner conductor Ω/km (Ω/1000ft) 1.62 (0.49) DC-resistance outer conductor Ω/km (Ω/1000ft) 1.47 (0.45) Stop bands MHz 240-300, 500-590, 750-860 MECHANICAL SPECIFICATIONS JFN Jacket JFN Jacket Description Halogen free, non corrosive, flame and fire retardant, low smoke, polyolefin Stot Design Groups of slope slots at short intervals Inner Conductor Material Overlapping Copper Strip Outer Conductor mm (in) 17.6 (0.69) Diameter Inner Conductor mm (in) 48.2 (1.9) Minimum Bending Radius mm (in) 48.2 (1.9) Minimum Bending Radius mm (in) 10.6 (0.8) Tensile Force N (lb) 1200 (270) Indication of Slot Alignment Guides opposite to slots Recommended Clamp Spacing m (ft) 1.5 (5) TEMPERATURE SPECIFICATIONS Temperature °C(°F) Storage Temperature °C(°F) -70 to 85 (-94 to 185)	Capacitance	pF/m (pF/ft)	76 (23.2)
DC-resistance outer conductorΩ/km (Ω/1000ft)1.47 (0.45)Stop bandsMHz240-300, 500-590, 750-860MECHANICAL SPECIFICATIONSJacketJFNJacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinSlot DesignGroups of slope slots at short intervalsInner Conductor MaterialCorrugated Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)48.2 (1.9)Minimum Bending Radiusmm (in)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-725 to 60 (-13 to 140)	Inductance	μH/m (μH/ft)	0.19 (0.058)
Stop bandsMHz240-300, 500-590, 750-860MECHANICAL SPECIFICATIONSJacketJFNJacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinSlot DesignGroups of slope slots at short intervalsInner Conductor MaterialCorrugated Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (it)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-25 to 60 (-13 to 140)	DC-resistance inner conductor	Ω/km (Ω/1000ft)	1.62 (0.49)
MECHANICAL SPECIFICATIONS Jacket JFN Jacket Description Halogen free, non corrosive, flame and fire retardant, low smoke, polyolefin Stot Design Groups of slope slots at short intervals Inner Conductor Material Corrugated Copper Tube Outer Conductor Material Overlapping Copper Strip Diameter Inner Conductor mm (in) 17.6 (0.69) Diameter Outer Conductor mm (in) 44.2 (1.74) Diameter over Jacket mm (in) 48.2 (1.9) Minimum Bending Radius mm (in) 700 (28) Cable Weight kg/m (lb/ft) 1.01 (0.68) Tensile Force N (lb) 1200 (270) Indication of Slot Alignment Guides opposite to slots Recommended Clamp Spacing m (in) 80 (3.15) TEMPERATURE SPECIFICATIONS Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140) 140 ()	DC-resistance outer conductor	Ω/km (Ω/1000ft)	1.47 (0.45)
JacketJFNJacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinSlot DesignGroups of slope slots at short intervalsInner Conductor MaterialCorrugated Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONS°C(°F)-70 to 85 (-94 to 185)Storage Temperature°C(°F)-25 to 60 (-13 to 140)	Stop bands	MHz	240-300, 500-590, 750-860
Jacket DescriptionHalogen free, non corrosive, flame and fire retardant, low smoke, polyolefinSlot DesignGroups of slope slots at short intervalsInner Conductor MaterialCorrugated Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter over Jacketmm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)°C(°F)-25 to 60 (-13 to 140)	MECHANICAL SPECIFICATIONS		
Slot DesignGroups of slope slots at short intervalsInner Conductor MaterialCorrugated Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter Over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONS°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-70 to 85 (-94 to 185)	Jacket		JFN
Inner Conductor MaterialCorrugated Copper TubeOuter Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-25 to 60 (-13 to 140)	Jacket Description		Halogen free, non corrosive, flame and fire retardant, low smoke, polyolefin
Outer Conductor MaterialOverlapping Copper StripDiameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONS*C(°F)-70 to 85 (-94 to 185)Storage Temperature°C(°F)-25 to 60 (-13 to 140)	Slot Design		Groups of slope slots at short intervals
Diameter Inner Conductormm (in)17.6 (0.69)Diameter Outer Conductormm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSC(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-25 to 60 (-13 to 140)	Inner Conductor Material		Corrugated Copper Tube
Diameter Outer Conductormm (in)44.2 (1.74)Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONS*C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-25 to 60 (-13 to 140)	Outer Conductor Material		Overlapping Copper Strip
Diameter over Jacketmm (in)48.2 (1.9)Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONS*********************************	Diameter Inner Conductor	mm (in)	17.6 (0.69)
Minimum Bending Radiusmm (in)700 (28)Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-25 to 60 (-13 to 140)	Diameter Outer Conductor	mm (in)	44.2 (1.74)
Cable Weightkg/m (lb/ft)1.01 (0.68)Tensile ForceN (lb)1200 (270)Indication of Slot AlignmentGuides opposite to slotsRecommended Clamp Spacingm (ft)1.5 (5)Minimum Distance to Wallmm (in)80 (3.15)TEMPERATURE SPECIFICATIONSStorage Temperature°C(°F)-70 to 85 (-94 to 185)Installation Temperature°C(°F)-25 to 60 (-13 to 140)	Diameter over Jacket	mm (in)	48.2 (1.9)
Tensile Force N (lb) 1200 (270) Indication of Slot Alignment Guides opposite to slots Recommended Clamp Spacing m (ft) 1.5 (5) Minimum Distance to Wall mm (in) 80 (3.15) TEMPERATURE SPECIFICATIONS Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140)	Minimum Bending Radius	mm (in)	700 (28)
Indication of Slot Alignment Guides opposite to slots Recommended Clamp Spacing m (ft) 1.5 (5) Minimum Distance to Wall mm (in) 80 (3.15) TEMPERATURE SPECIFICATIONS Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140)	Cable Weight	kg/m (lb/ft)	1.01 (0.68)
Recommended Clamp Spacing m (ft) 1.5 (5) Minimum Distance to Wall mm (in) 80 (3.15) TEMPERATURE SPECIFICATIONS Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140)	Tensile Force	N (lb)	1200 (270)
Minimum Distance to Wall mm (in) 80 (3.15) TEMPERATURE SPECIFICATIONS 80 (3.15) Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140)	Indication of Slot Alignment		Guides opposite to slots
TEMPERATURE SPECIFICATIONS Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140)	Recommended Clamp Spacing	m (ft)	1.5 (5)
Storage Temperature °C(°F) -70 to 85 (-94 to 185) Installation Temperature °C(°F) -25 to 60 (-13 to 140)	Minimum Distance to Wall	mm (in)	80 (3.15)
Installation Temperature °C(°F) -25 to 60 (-13 to 140)	TEMPERATURE SPECIFICATIONS		
	Storage Temperature	°C(°F)	-70 to 85 (-94 to 185)
Operation Temperature °C(°F) -40 to 85 (-40 to 185)	Installation Temperature	°C(°F)	-25 to 60 (-13 to 140)
	Operation Temperature	°C(°F)	-40 to 85 (-40 to 185)

RAY cable, A-series

RAY158-50JFNA

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All information contained in the present datasheet is subject to confirmation at time of ordering



1-5/8" RADIAFLEX® RAY Cable, A-series

		Couplin	ng Loss	TESTING AND ENVIRONMENTAL		
MHz	loss dB/100m (dB/100ft)	50%, dB	95%, dB	Jacket Testing Methods	Test methods for fire behaviour of cable : IEC 60754-1/-2 smoke emission: halogen free, non corrosive IEC 61034 low smoke	
75	0,56 (0,17)	62 (65)	72 (75)		IEC 60332-1 flame retardant IEC 60332-3-24 fire retardant	
150	0,78 (0,24)	69 (72)	80 (83)		UL1666, ASTM E 662, NES711 and NES713	
450	1,51 (0,46)	64 (67)	69 (72)			
870	2,85 (0,87)	60 (60)	63 (66)			
900	3,04 (0,93)	60 (60)	63 (66)			
960	3,38 (1,03)	58 (60)	61 (66)			
⊧xterna	I Documen	t Links	Note	S		
Externa	I Documen	t Links		-		
Externa	I Documen	t Links	Θ	Coupling loss as well as longitudinal method according to IEC 61196-4.	attenuation of RADIAFLEX® cables are measured by the free space	
∟xterna	l Documen	t Links	ЭЭ	Coupling loss as well as longitudinal method according to IEC 61196-4. Coupling loss values are measured v dipole antenna.	with a radial (below 300 MHz) or orthogonal (above 300 MHz) orientated	
Externa	l Documen	t Links	9 9 9	Coupling loss as well as longitudinal method according to IEC 61196-4. Coupling loss values are measured v dipole antenna.		
∟xterna	l Documen	t Links	9 9 9 9	Coupling loss as well as longitudinal method according to IEC 61196-4. Coupling loss values are measured v dipole antenna. The coupling loss values given in bra and orthogonal) of dipole antenna. Coupling loss values are given with a	with a radial (below 300 MHz) or orthogonal (above 300 MHz) orientated	
∟xterna	l Documen	t Links	9 9 9 9	Coupling loss as well as longitudinal method according to IEC 61196-4. Coupling loss values are measured v dipole antenna. The coupling loss values given in bra and orthogonal) of dipole antenna. Coupling loss values are given with a Note: Measured values below nomin	with a radial (below 300 MHz) or orthogonal (above 300 MHz) orientated ackets are average values of all three spatial orientations (radial, parallel a tolerance of +5 dB and longitudinal loss values with a tolerance of +5%.	

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RAY158-50JFNA

REV DATE: 2015/04/24

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