

Part No. ACM13-04LBXXXSAR00

Coax Cable \varnothing 1.13mm RP-SMA to MHF 4L



KYOCERA AVX series of Cables deliver on the key needs of device designers for higher functionality and performance in embedded designs. The ACM13-04LBXXXSAR00 is a cable series that connects an RP-SMA port to an MHF 4L with the least possible losses.

RP-SMA to MHF 4L Cable

KEY BENEFITS

Stay-in-Tune

KYOCERA AVXs cables provide superior RF field containment, resulting in less interaction with surrounding components.

Quicker Time-to-Market

By having cable portfolio, customer and regulatory specifications are more easily met.

Environmental Compliance

Products are the latest RoHS version compliant

APPLICATIONS

- M2M Industrial devices
- Smart Retail
- Gateways
- Smart Cities
- Smart Grid

Electrical Specifications

Typical Performance with cable length 100 mm

Frequency (GHz)	0.5 to 6
Insertion Loss	View Chart (page 2)
Nom. Impedance	50 \pm 2Ohms
Insulation Resistance	500M Ω

Mechanical Specifications & Ordering Part Number

Ordering Part #	ACM13-04LB100SAR00
length (mm)	100
Cable	From RP-SMA to MHF 4L
Storage Temperature ($^{\circ}$ C)	-40 $^{\circ}$ C to +125 $^{\circ}$ C
Operation Temperature ($^{\circ}$ C)	-40 $^{\circ}$ C to +125 $^{\circ}$ C
Packaging	PE Bag

KYOCERA AVX Cable Specifications.

KYOCERA AVX produces a wide variety of standard and custom Antenna and Accessories to meet user needs.

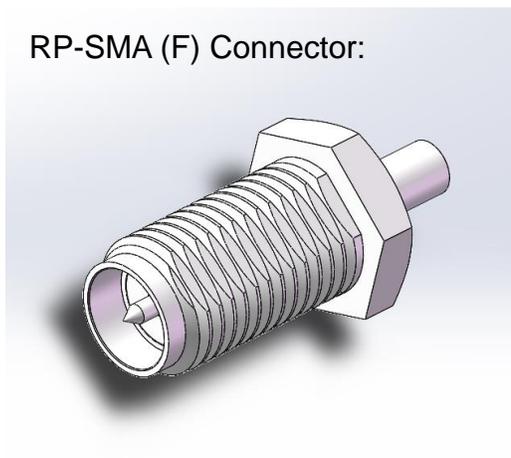
Insertion Loss

Cable with 100 mm length

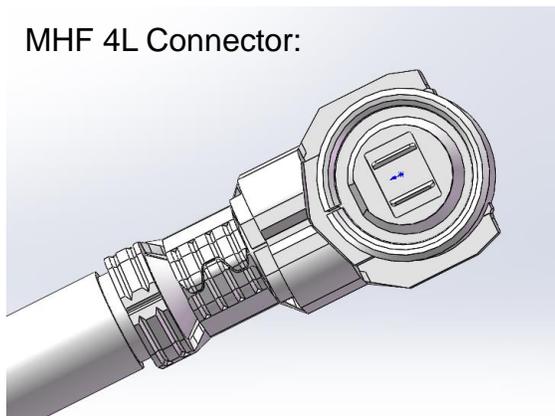
Frequency (MHz)	Insertion Loss (dB)
500	-0.25
1000	-0.33
1500	-0.49
2400	-0.54
3000	-0.61
4000	-0.69
5000	-0.85
6000	-0.98

3D Connector View

RP-SMA (F) Connector:



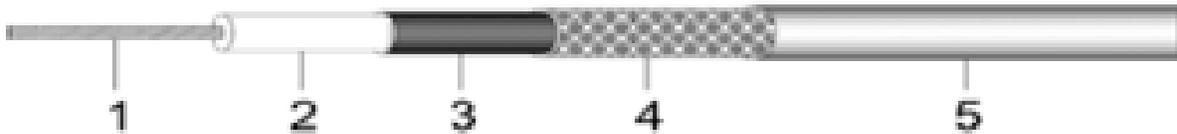
MHF 4L Connector:



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Structure Drawing



Number	Structure	Material
1	Inner conductor	Silverplated copper wire
2	Insulation	FEP
3	Outer conductor	Cu-plastic composite Tape
4	Outer conductor	Tinned copper wire
5	Jacket	FEP

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Characteristics – Physical Specifications

Standard Wire Size/Item	32AWG AC:500V DC:500V
Rating Temp Voltage:	-40°C to +125°C AC:500V DC:500V
Standard Type/Nomination	1.13mm
Mating Cycle:	500 CYCLES MIN
Min Bending Radius (dynamic) [mm]	4mm(once)
Min Bending Radius (static) [mm]	4
Installation Temperature Range [°C]:	-40°C to +125°C
UV-resistance	Very Good
Jacket	Unaged Tensile Strength: 2500 PSI Min.(1.76Kg/mm ²) Elongation: 200% min. Aged Tensile Strength: Unaged Min 75%(168HRS*232°C) Elongation: Unaged Min 75%(168HRS*232°C)
Spark test:	500 V
Dielectric Strength:	AC 500V/0.1S
Nom. Capacitance:	98
Nom. Vel. Of Prop.	69%
Flame Test:	VW-1 OK

Environmental Specs Summary

High Temperature and High Humidity (HTHH) Test	Conditions: Temperature: +85°C, Humidity: 85% RH, Test Duration: 96 Hours Acceptance Criteria: No visible Corrosion.
Salt Spray Test	Conditions: Expose to a +35 ±3 °C spray of a 5% (by volume) resolution of NaCl in water for 48 hours. Acceptance Criteria: No visible Corrosion / Discoloration acceptable.

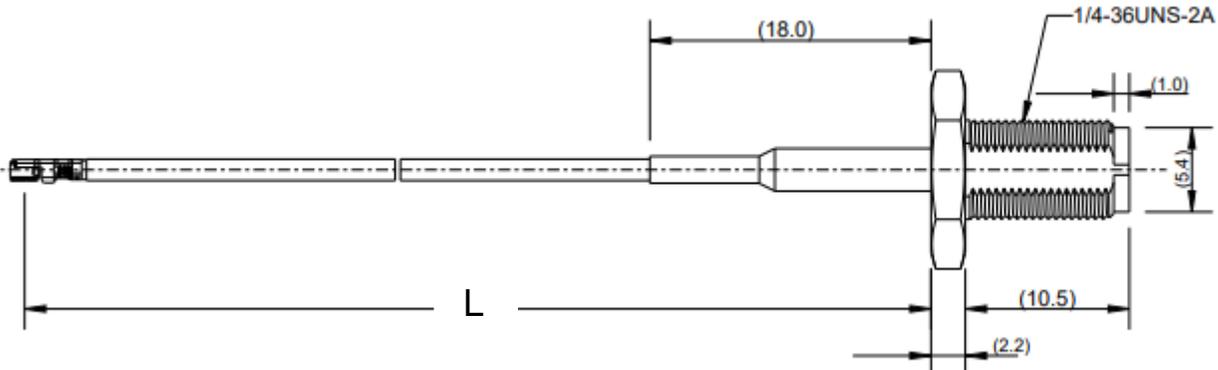
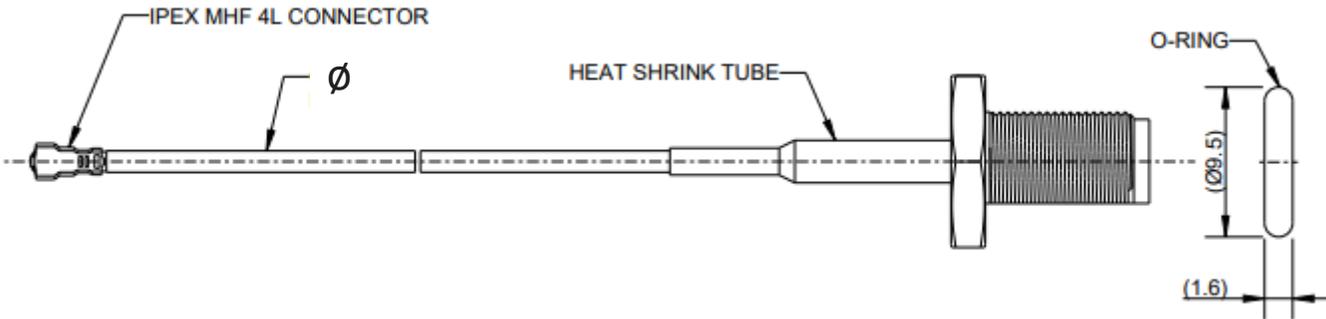
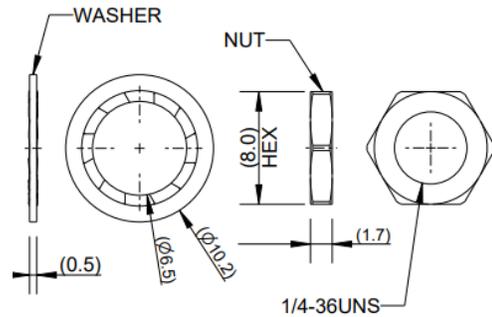
KYOCERA AVX Cable Specifications.

KYOCERA AVX produces a wide variety of standard and custom Antenna and Accessories to meet user needs.

Cable Technical Drawing

Typical cable dimensions, in mm.

Part Number	ø (mm)	L (mm)
ACM13-04LB100SAR00	1.13	100.0



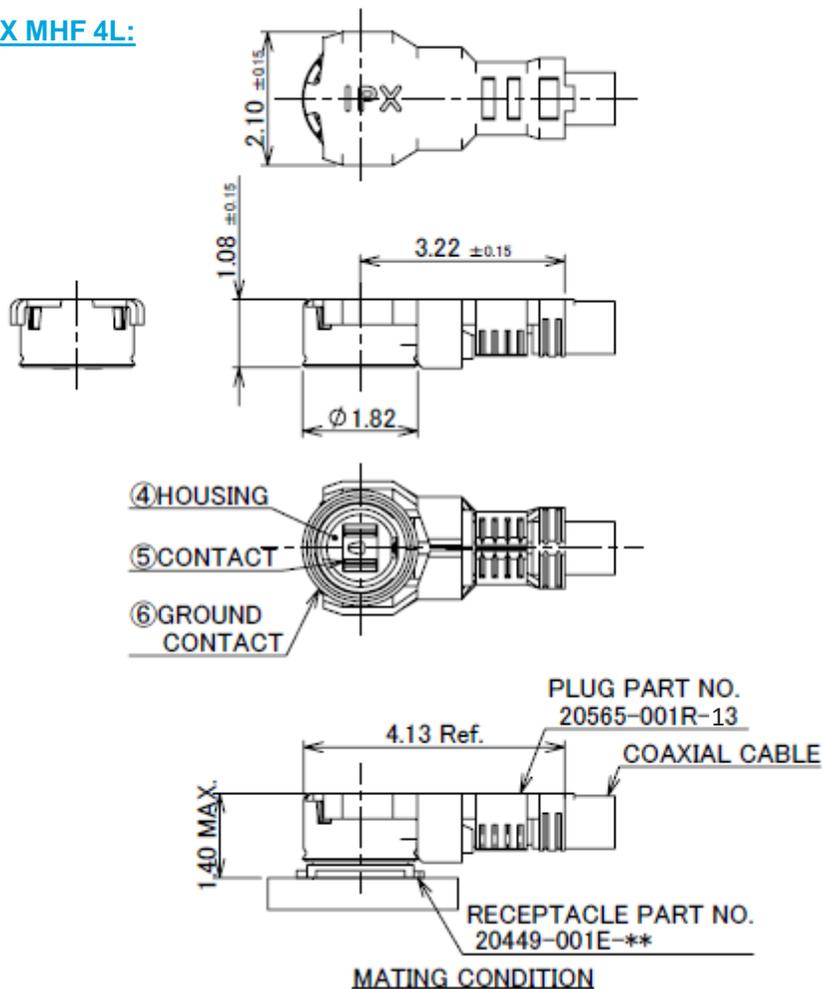
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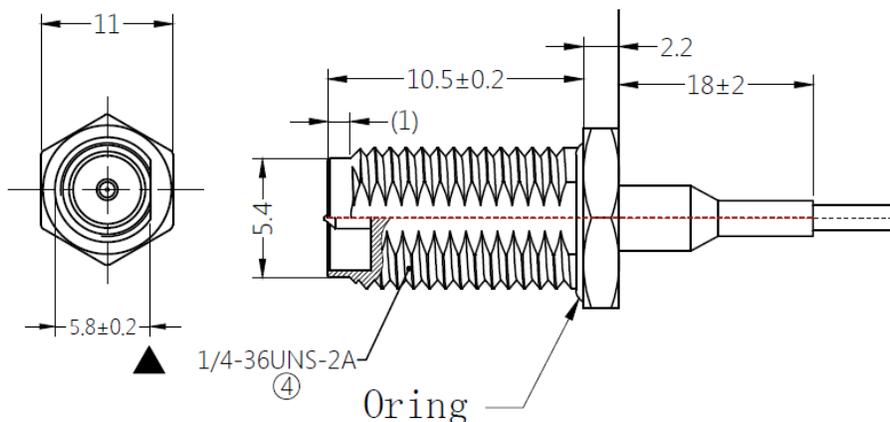
Connectors Drawing

Typical dimensions, in mm.

Connector IPEX MHF 4L:



Connector RP-SMA (F):

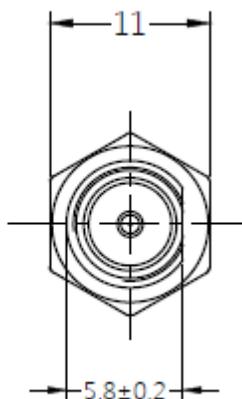


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Recommended Mounting Hole - RP-SMA(F) Bulkhead

Typical dimensions, in mm.



Ordering PNs

PN	Cable Length(mm)
ACM13-04LB030SAR00	30
ACM13-04LB050SAR00	50
ACM13-04LB100SAR00	100
ACM13-04LB150SAR00	150
ACM13-04LB200SAR00	200
ACM13-04LB300SAR00	300
ACM13-04LBXXXSAR00	XXX