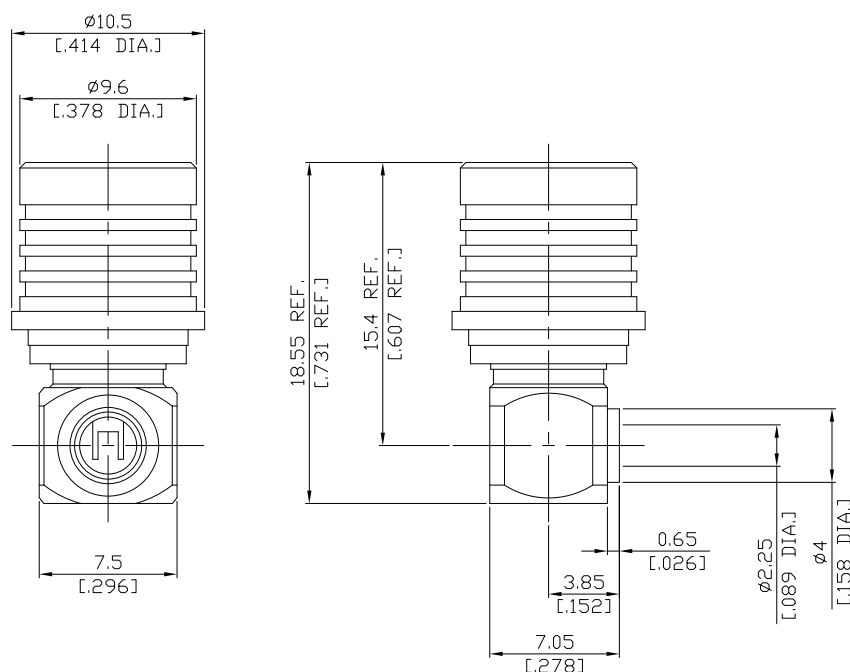


QMA Plug (Male) Right Angle Connector, Center Pin: Solder, Cable Entry: Solder Attachment
for .085, RG405 Cable DC-18GHz VSWR1.35

QMA1E59-0085A / 1H4



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 61169-50

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.05 (≥ 32.26 dB), DC to 3GHz

≤ 1.08 (≥ 28.30 dB), 3 to 4GHz

≤ 1.11 (≥ 25.66 dB), 4 to 6GHz

Insertion Loss

$\leq 0.05 \times \sqrt{F}$ (GHz) dB, DC to 6GHz

Insulation Resistance

≥ 5 G Ω

Center Contact Resistance

≤ 3.0 m Ω

Outer Contact Resistance

≤ 2.5 m Ω

Test Voltage, at sea level, 50Hz

1000 V rms

Working Voltage, at sea level, 50Hz

250 V rms

RF Leakage

≥ 95 dB up to 2 GHz

≥ 80 dB up to 4 GHz

≥ 70 dB up to 6 GHz

Intermodulation

≤ -130 dBc @ 2 x 20 W

-VSWR in application depends decisive on cable assembly process-

Material And Plating

Piece Parts	Material	Plating
Centre contact	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Phosphor Bronze	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	
Coupling nut	Brass	Copper-Tin-Zinc Alloy

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:-

Date:
APR/1/2025

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

Coupling Mechanisms	Quick Lock
Mating Cycles	min. 100
Center contact captivation: axial	≥ 20 N
Engagement Force	typ. 25 N
Disengagement Force	typ. 20 N
Retention Force for Interface	60 N min.
Centre Contact	Soldered
Cable Entry	Soldered

Environmental Data

Temperature Range	-40°C to +85°C
Storage temperature	-40°C to +85°C
Thermal Shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Damp heat, steady state	IEC 60169-1 16.3 (96 hrs)
RoHS	compliant

Suitable Cables

.085, .086, RG405; Rosnol RSR-085, RSF-085, EF405

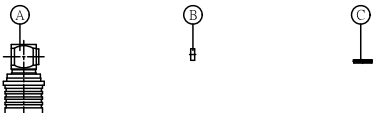
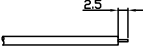
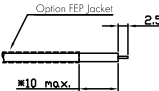
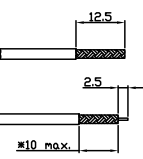
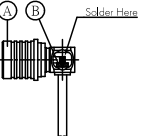
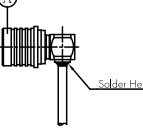
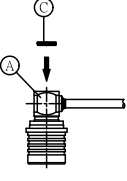
Packing

Single or 100



QMA Plug (Male) Right Angle Connector, Center Pin: Solder, Cable Entry: Solder Attachment
for .085, RG405 Cable DC-18GHz VSWR1.35

QMA1E59-0085A / 1H4

Connector Type:	QMA1E59-0085A/1H4	Inner Conductor Contact:	Soldered
Suitable Cable:	.085, .086, RG405; Rosnol RSR-085, RSF-085, EF405	Outer Conductor Contact:	Soldered
Parts List of Connector:			
			
Assembly Steps:			
Picture	Process	Attention/Check	Tools Required
Semi-Rigid Cable  Semi-Form Cable  ECOFLEX or Flexible Cable 	For Semi-Rigid and Semi-Form cable : Trim cable according to drawing. Remove the cable jacket Dimension 12.5 mm applies to the FEP jacket cables. For ECOFLEX or Flexible Cable: Remove the cable jacket according to the picture and put the braid into liquid tin. Remove cable dielectric according to the drawing.	Do not damage center contact, dielectric and braid.	Blades Trim tools
	Push ferrule "B" over the cable.		
	Place soldering gauge on "A" center contact. Flow small amount of solder into bore of contact. and solder according to drawing.	Clean center contact A and cable dielectric.	Solder Iron Solder Wire
	Slide connector body over the cable. Solder connector body to the cable (see drawing).	Avoid excessive heat. Immediately use alcohol to wipe the soldered area to reduce joint temperature and remove residuals.	Solder Iron Solder Wire
	Place cover "C" on rear aperture of body "A". Press cover "C" into body "A".		Small press or a small bench vice.