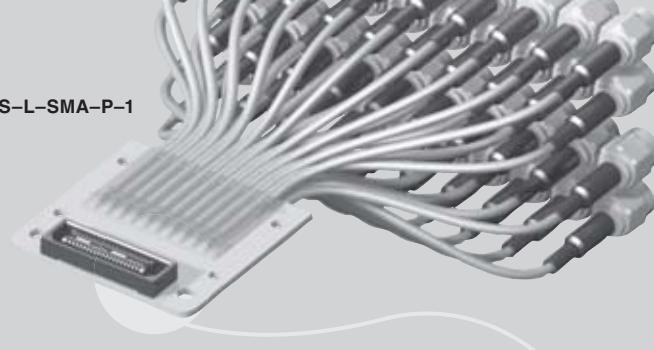




EQRF SERIES

COMBINATION Q SERIES®/RF CABLE

SPECIFICATIONS

For complete specifications see www.samtec.com?EQRF

Connectors:

Q Series®:

See QTE or QSE Series

RF:

See SMA, MCX or MMCX Series

RoHS Compliant:

Yes

RG 178 Cable:

Impedance: 50Ω

Capacitance:

89.61pF/meter

Propagation Delay:

4.83 nsec/meter

Max Attenuation

(cable only):

1.71dB @ 1GHz for 1 meter

Conductor Size:

30 AWG, (0.31mm) .012" dia.

Conductor Material:

Silver Plated Copper

Conductor Resistance:

0.34Ω/meter max

Current Rating: 3A

Insulator Diameter:

(0.86mm) .034"

Insulator Material: PTFE

Dielectric Constant: 2.1dK

Shield Material:

Silver Plated Copper Clad Steel

Jacket Material: FEP

Jacket Diameter:

(1.80mm) .071"

Jacket Temp Rating:

-50°C to +250°C

Jacket Color: Amber

RoHS Compliant:

Yes

RG 316 Cable:

Impedance: 50Ω

Capacitance: 96.432pF/meter

Propagation Delay:

4.83 nsec/meter

Max Attenuation

(cable only):

1.25dB @ 1GHz for 1 meter

Conductor Size:

26 AWG, (0.51mm) .020" dia.

Conductor Material:

Silver Plated Copper

Conductor Resistance:

0.13Ω/meter max

Current Rating: 5A

Insulator Diameter:

(1.52mm) .060"

Insulator Material: PTFE

Dielectric Constant: 2.1dK

Shield Material:

Silver Plated Copper Clad Steel

Jacket Material: FEP

Jacket Diameter:

(2.54mm) .100"

Jacket Temp Rating:

-50°C to +250°C

Jacket Color: Amber

RoHS Compliant:

Yes

Note: Some lengths, styles and options are non-standard, non-returnable.

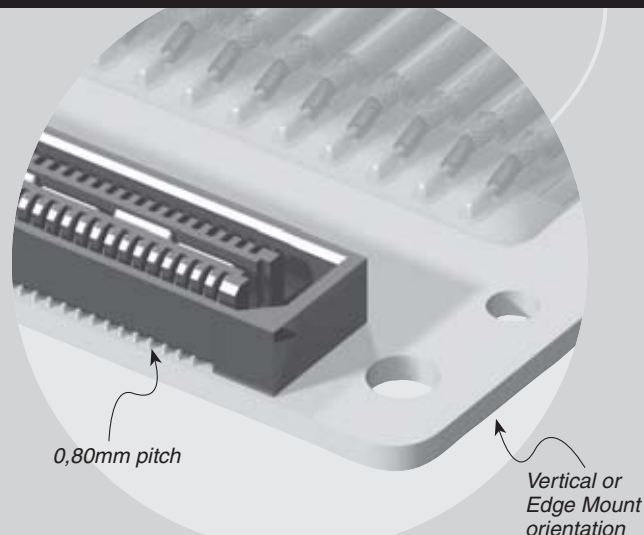
Mates with:

QTE, QSE,
MMCX, MCX, SMA



Cable Length	EQRF Rated @ 7dB Insertion Loss	
	-DP	-SE
6" (152mm)	4.62 GHz / 9.24 Gbps	4.62 GHz / 9.24 Gbps

Performance data for other cable lengths and complete test data available at www.samtec.com?EQRF or contact sig@samtec.com



EQRF

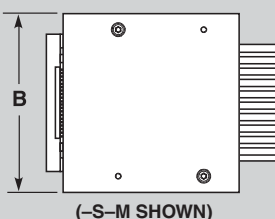
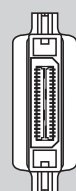
NO. OF POSITIONS
PER ROWWIRE
LENGTH

-020, -040
(40 Positions Per Bank)

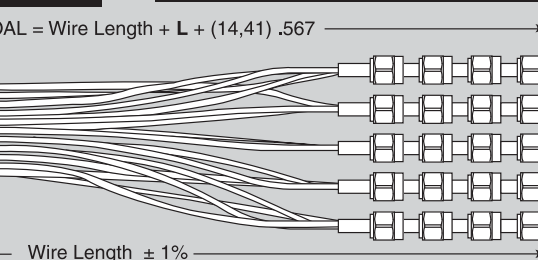
-“XXXX”
= Wire Length in millimeters
0152mm (06.00") MIN

GENDER/ ORIENTATION	L
-S-S & -S-M	(20,88) .822
-T-S & -T-M	(21,64) .852
-SL & -TL	(17,35) .683
-SR & -TR	

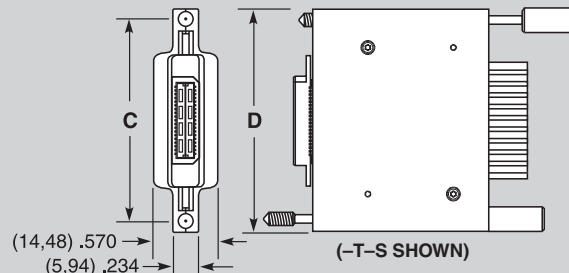
NO. OF POSITIONS	A	B	C	D
40	(39,69) 1.563	(40,61) 1.599	(45,47) 1.790	(50,76) 1.999
80	(65,60) 2.583	(66,52) 2.619	(71,37) 2.810	(76,67) 3.019



(-S-M SHOWN)



Wire Length ± 1%

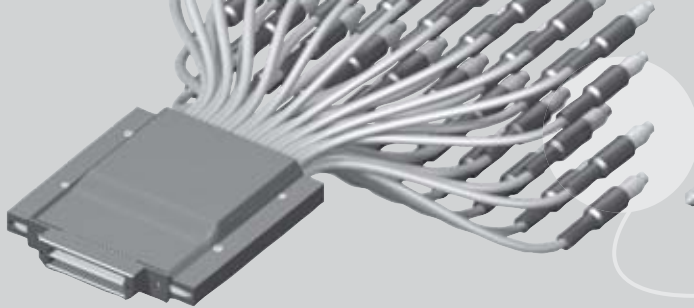


(-T-S SHOWN)

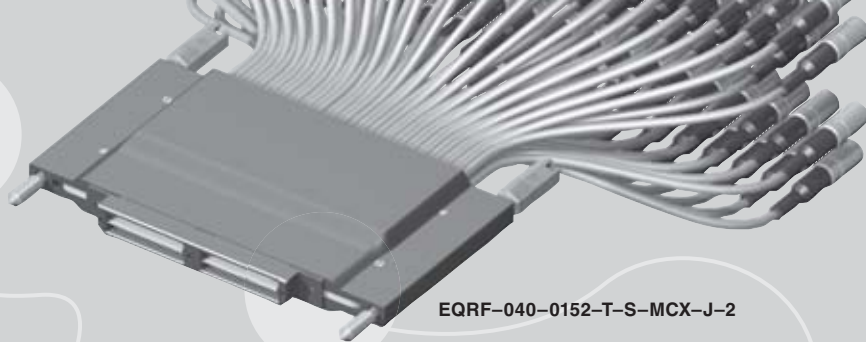
Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

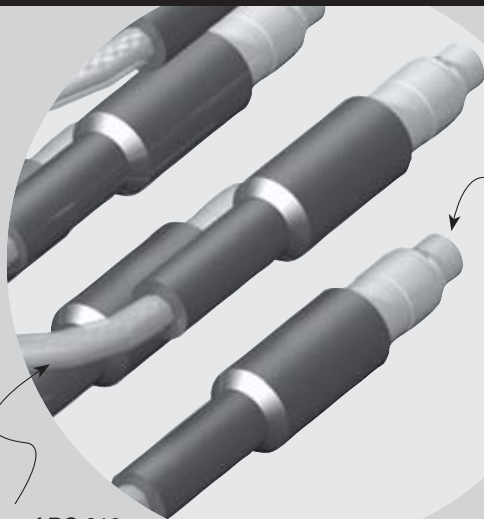
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SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292
SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-6083 3766
2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9580 0683



EQR-020-0152-T-M-MMCX-P-1

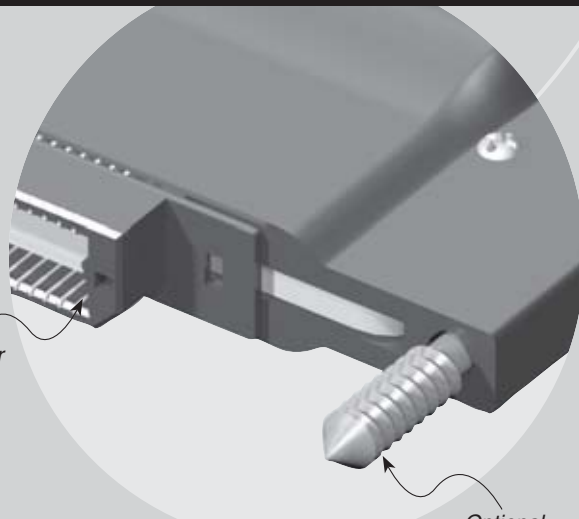


EQR-040-0152-T-S-MCX-J-2



Choice of SMA,
MCX or MMCX
RF termination

Choice of RG 316
or RG 178 cable



Socket or
Terminal

Optional
Captive Screws

Q SERIES® GENDER

-T
= Terminal
-S
= Socket

Q SERIES® ORIENTATION

-M
= Edge Mount
-S
= Edge Mount with Captive Screws
-R
= Surface Mount, Notch Right
-L
= Surface Mount, Notch Left

RF CONNECTOR

-MMCX
= RF Plug
-MCX
= RF Jack or Plug
-SMA
= RF Jack or Plug

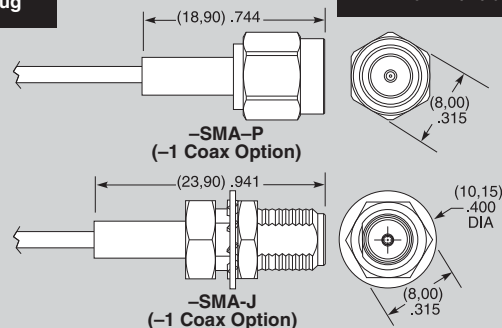
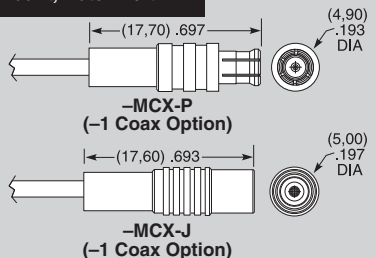
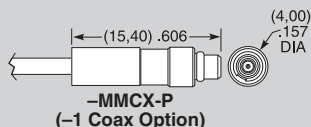
RF GENDER

-P
= Plug
-J
= Jack
(MCX & SMA only)

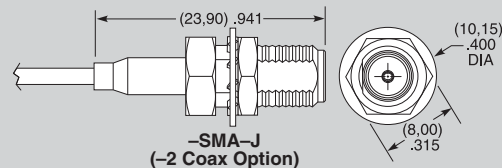
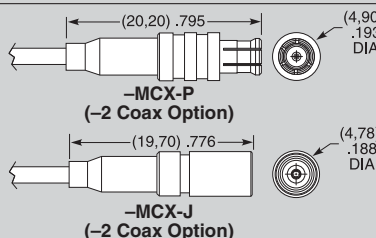
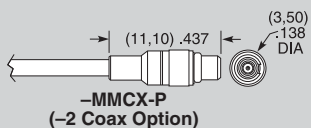
COAX CABLE

-1
= RG 316
-2
= RG 178
(See RF Connector Type
for Availability)

RG 316 Cable Options



RG 178 Cable Options



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