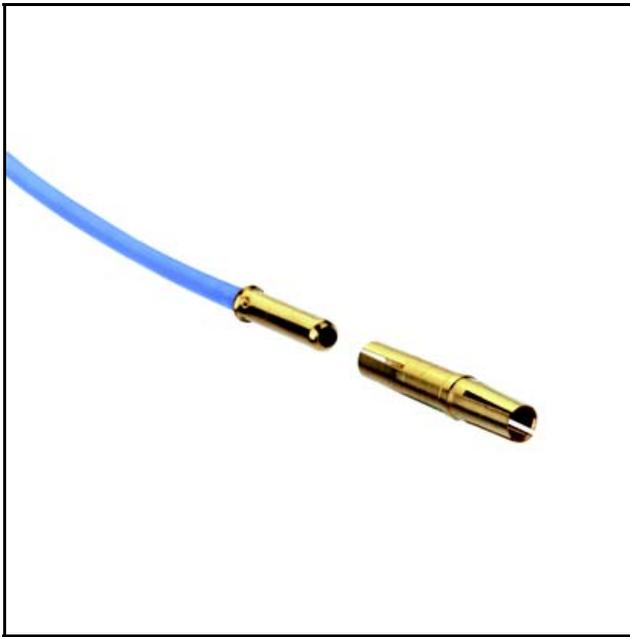


3M™ Micro Coaxial Cable Assembly

Cable Assemblies



- High density coaxial interconnect
- High speed digital signal interconnect system
- Low insertion withdrawal force
- Blind mating capability
- Customized total assembly solution

Date Modified: August 22, 2005

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Sheet 1 of 2

Physical

Coaxial Connector	(female wiremount)
(Connector Contact) Material:	Copper Alloy
Plating:	30 μ " (0.76 μ m) Avg. Gold
(Connector Shield) Material:	Copper Alloy
Plating:	30 μ " (0.76 μ m) Avg. Gold
(Connector Insulator)	Fluoropolymer
Coaxial Coupler	(male to male feedthrough)
(Coupler Contact) Material:	Copper Alloy
Plating:	30 μ " (0.76 μ m) Avg. Gold
(Coupler Shield) Material:	Copper Alloy
Plating:	30 μ " (0.76 μ m) Avg. Gold
(Coupler Insulator)	Liquid Crystal Polymer (LCP)

Electrical

Voltage Rating:	30 V
Insulation Resistance:	>100 Megohms at 500 VDC
Characteristic Impedance:	50 Ω and 75 Ω single ended assemblies 100 Ω differential assemblies

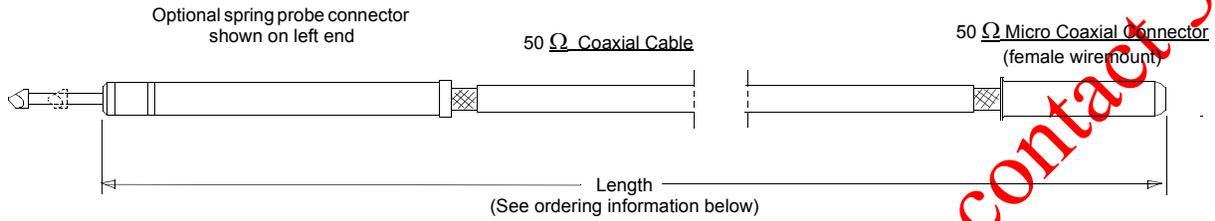
Mechanical

Connector Insertion/Withdrawal Force:	0.5 lbs nominal/coaxial connector (2.2 N)
Coaxial Cable Bend Radius:	3/8" minimum

Environmental

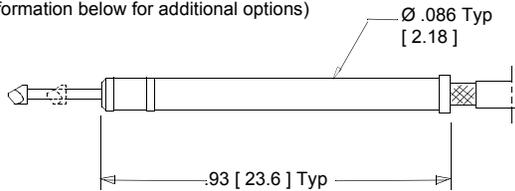
Temperature Rating:	-40 to +105°C
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Example of 50 Ω Micro Coaxial Cable Assembly

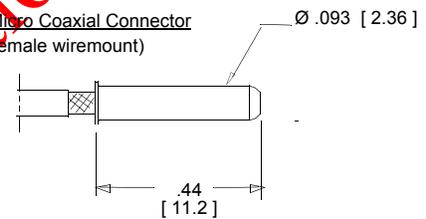


Connector Details

50 Ω Coaxial Spring Probe Connector
(Optional connector shown; see ordering information below for additional options)

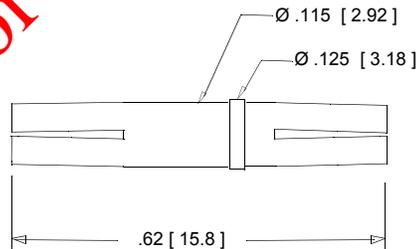


50 Ω Micro Coaxial Connector (female wiremount)



50 Ω Micro Coaxial Coupler Detail (male to male feedthrough)

Please contact 3M for assistance in coupler packaging configurations.



Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

[] Dimensions for Reference only

Ordering Information

98XXMC-XXX-XXX.X-X-0

Connector Options (Left side)

P3 = 50 Ω coaxial spring probe connector
24 = .1" SCI (TS0803)
MC = Micro Coaxial Connector (female wiremount)

Cable Type
027 = 50 Ω coaxial cable
26 AWG stranded

Place holder

Harness required
A = Multiple assemblies harnessed
O = Single assembly only

Length (inches)
Tip to Tip (See above)

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Sheet 2 of 2

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*Minimum 10%
Post-Consumer Fiber*

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