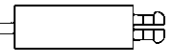


The MC-CARD series is an alternative to MMCX series with :

- Low cost solution
- Possibility to customize the connector in order to meet FCC requirements
- Design to edge card application
- Higher reliability (> 5 000 matings)

We offer a wide choice of MC-CARD cable connectors (crimp or solder type) for a wide range of standard 50Ω cables.

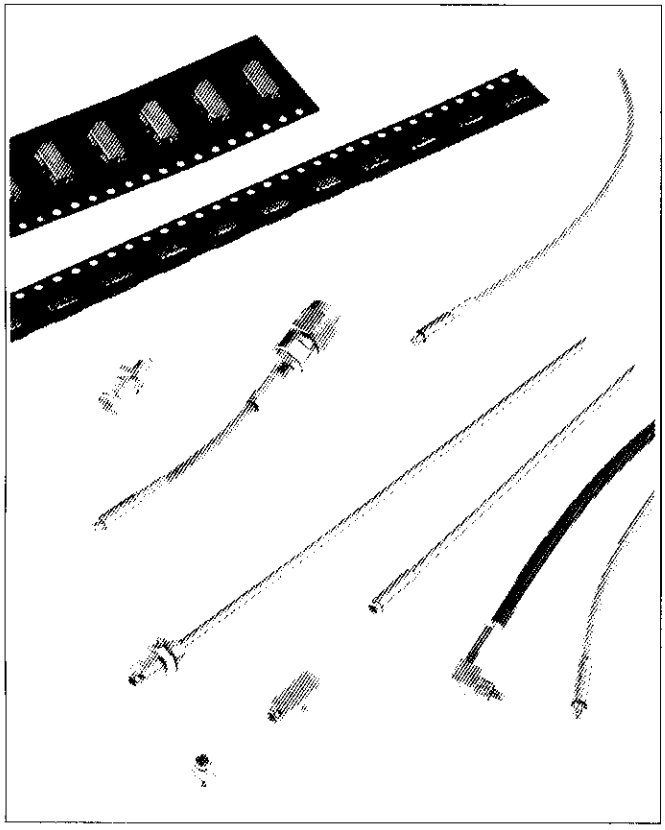
FINDER GUIDE

CABLE CONNECTOR

model cable	straight plug		right angle plug		straight jack		bulkhead straight jack	
	crimp type	solder type	crimp type	solder type	crimp type	solder type	crimp type	solder type
2/50/S (RG178)	**R199 005 200** (page 6)		**R199 005 240** (page 6)		**R199 005 000** (page 7)		**R199 005 030** (page 7)	
2.6/50/S (RG316)	**R199 005 010** (page 6)		**R199 005 250** (page 6)					
2.6/50/D (RD316)			**R199 005 260** (page 6)					
.085" (RG405)		**R199 005 233** (page 6)		**R199 005 273** (page 6)		**R199 005 013** (page 7)		**R199 005 023** (page 7)

RECEPTACLES

model back side	SMT receptacle	SMT switch
surface mount (*on board*)	**R199 005 820W** **R199 005 820** **R199 005 821** (page 8)	
surface mount (*edge card*)	**R199 005 800W** **R199 005 800** **R199 005 801** (page 8)	**R199 005 890W** **R199 005 890** (page 9)



50 Ω	DC - 8 GHz

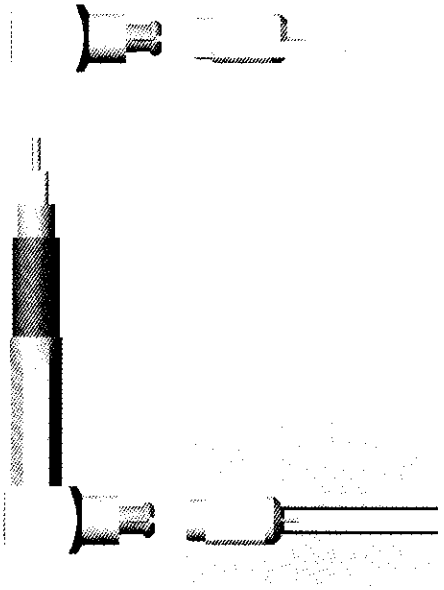
GENERAL

- Microminiature coaxial connectors
- Surface mount receptacles and switches
- 360° cable rotation
- Snap-on mating

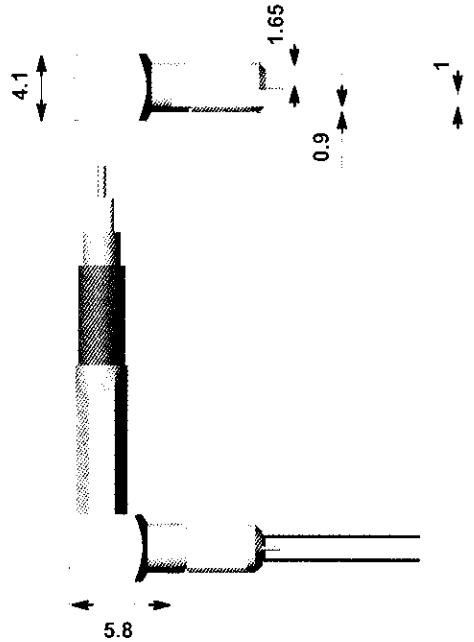
APPLICATIONS

- Modems
  - PC MCIA and ISA card
  - WLAN
  - GSM
- Antenas connectors
  - PMR / TETRA

PROFILE



Unmated



Mated

ELECTRICAL CHARACTERISTICS

Impedance	50 Ω				
Frequency range	DC - 8 GHz				
V.S.W.R. TYPICAL	1	2.5	4	6	8
Straight models					
2/50 cable	1.07	1.15	1.16	1.17	1.25
.085" cable	1.02	1.05	1.08	1.10	1.14
Right angle models					
2/50 cable	1.08	1.17	1.22	1.26	1.30
2.6/50 cable	1.05	1.08	1.10	1.13	1.12
.085" cable	1.02	1.05	1.08	1.09	1.10
Insertion loss					
Straight connectors	0.04	0.08	0.11	0.15	0.15
Right angle connectors	0.05	0.10	0.15	0.20	0.25
RF leakage	- 65 dB max at 8 GHz				
Insulation resistance	5000 MΩ min				
Contact resistance					
center contact	1.5 mΩ				
outer contact	0.2 mΩ				
Working voltage in VRMS *at sea level (at 21000 m)*	170				
Dielectric withstanding voltage in VRMS *at sea level*	500				
RF testing voltage sea level in VRMS	500				

MECHANICAL CHARACTERISTICS

Durability	5000 matings
Force to engage	6.2 N
Force to disengage	8.8 N
Cable retention force	
cable 2/50	58 N
cable 2.6/50	110 N
cable .085"	136 N
Center contact retention force	slide-on

ENVIRONMENTAL CHARACTERISTICS

Temperature range *switches*	- 40, + 110 °C
others	- 25, + 125 °C
Thermo cycling test	MIL STD 202, method 107, condition B
High temperature endurance	MIL STD 202, method 108
Corrosion (salt spray)	MIL STD 202, method 101, condition B
Vibration	MIL STD 202, Method 204, condition B

Shock	MIL STD 202, method 213, condition G
Moisture resistance	MIL STD 202, method 106
Hermeticity	MIL STD 202, method 112, condition C vacuum 10^{-6} Hgmm (Torr) Leakage rate 10^{-6} atm/cm^3/s
Barometric pressure	pressure test : 3.5 bars ; duration : 2 mn ; temperature : 15°C to 25 °C

MATERIALS

Bodies	Brass
Center contact *male* *female*	 Brass Bronze or heat treated Berylium following QQ-C-530
Insulator *cable connectors* *switches*	 PTFE Polyether ethercetone 30% GF
Gasket	Silicon rubber

PLATINGS

Bodies *cable connector* *SMT receptacles* *edge card receptacles* *switches*	 Nickel Gold Gold Gold
Center contacts	Gold