



**CRYSTEK**  
MICROWAVE  
A DIVISION OF CRYSTEK CORPORATION

## RG-316 DOUBLE SHIELDED RF COAX CABLE ASSEMBLIES



### RG316DS 50 Ohm Coaxial Cables

SMA Male Straight / SMA Male Straight  
SMA Male Straight / SMA Female Bulkhead  
SMA Male Straight / SMA Male Right Angle  
SMA Male Right Angle / SMA Male Right Angle  
SMA Male Straight / BNC Male Straight



### Features:

**Strain Relief:** Adhesive shrink tubing over crimp area  
**Center Conductor:** SPC (Silver-plated copper)  
**Shielding:** Double Braid, SPC(2) (Silver-plated copper)  
**Insulation:** PTFE (Polytetrafluoroethylene) dielectric  
**Jacket:** FEP (Fluorinated Ethylene Propylene)  
**Operating Temperature:** -40°C to +85°C  
**Minimum Bend Radius:** 0.6"

*Custom Lengths Available*  
(Minimum Order Quantity Required)

Electrical Data:

PN: CCSMA-MM-RG316DS-24

| Freq. (MHz) | Insertion Loss | VSWR    |
|-------------|----------------|---------|
| 50          | -0.035         | 1:1.014 |
| 500         | -0.173         | 1:1.092 |
| 1000        | -0.303         | 1:1.159 |
| 2000        | -0.468         | 1:1.358 |
| 3000        | -0.502         | 1:1.257 |
| 4000        | -0.787         | 1:1.473 |
| 5000        | -0.822         | 1:1.288 |
| 6000        | -1.09          | 1:1.596 |
| 7000        | -1.27          | 1:1.473 |
| 8000        | -1.42          | 1:1.579 |

### SMA / SMA [Straight/Straight]

| Part Number         | Description                                                   | Length |
|---------------------|---------------------------------------------------------------|--------|
| CCSMA-MM-RG316DS-6  | RG316 Double Shielded Cable, SMA Male/Male, Straight/Straight | 6"     |
| CCSMA-MM-RG316DS-12 | RG316 Double Shielded Cable, SMA Male/Male, Straight/Straight | 12"    |
| CCSMA-MM-RG316DS-24 | RG316 Double Shielded Cable, SMA Male/Male, Straight/Straight | 24"    |
| CCSMA-MM-RG316DS-36 | RG316 Double Shielded Cable, SMA Male/Male, Straight/Straight | 36"    |
| CCSMA-MM-RG316DS-48 | RG316 Double Shielded Cable, SMA Male/Male, Straight/Straight | 48"    |

### SMA / SMA [Straight/Right Angle]

| Part Number          | Description                                             | Length |
|----------------------|---------------------------------------------------------|--------|
| CCSMA1-MM-RG316DS-6  | RG316 Double Shielded Cable, SMA Male/Male, Straight/RA | 6"     |
| CCSMA1-MM-RG316DS-12 | RG316 Double Shielded Cable, SMA Male/Male, Straight/RA | 12"    |
| CCSMA1-MM-RG316DS-24 | RG316 Double Shielded Cable, SMA Male/Male, Straight/RA | 24"    |
| CCSMA1-MM-RG316DS-36 | RG316 Double Shielded Cable, SMA Male/Male, Straight/RA | 36"    |



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### SMA / SMA [Right Angle/Right Angle]

| Part Number          | Description                                       | Length |
|----------------------|---------------------------------------------------|--------|
| CCSMA2-MM-RG316DS-6  | RG316 Double Shielded Cable, SMA Male/Male, RA/RA | 6"     |
| CCSMA2-MM-RG316DS-12 | RG316 Double Shielded Cable, SMA Male/Male, RA/RA | 12"    |
| CCSMA2-MM-RG316DS-24 | RG316 Double Shielded Cable, SMA Male/Male, RA/RA | 24"    |
| CCSMA2-MM-RG316DS-36 | RG316 Double Shielded Cable, SMA Male/Male, RA/RA | 36"    |

### SMA / SMA [Male Stright/Female Straight]

| Part Number          | Description                                                | Length |
|----------------------|------------------------------------------------------------|--------|
| CCSMA-MFB-RG316DS-12 | RG316 Double Shielded Cable, SMA Male/Female, STR/Bulkhead | 12"    |
| CCSMA-MFB-RG316DS-24 | RG316 Double Shielded Cable, SMA Male/Female, STR/Bulkhead | 24"    |
| CCSMA-MFB-RG316DS-36 | RG316 Double Shielded Cable, SMA Male/Female, STR/Bulkhead | 36"    |



### SMA / BNC [Straight/Straight]

| Part Number         | Description                                              | Length |
|---------------------|----------------------------------------------------------|--------|
| CCBNS-MM-RG316DS-6  | RG316 Double Shielded Cable, SMA Male/BNC Male, Straight | 6"     |
| CCBNS-MM-RG316DS-12 | RG316 Double Shielded Cable, SMA Male/BNC Male, Straight | 12"    |
| CCBNS-MM-RG316DS-24 | RG316 Double Shielded Cable, SMA Male/BNC Male, Straight | 24"    |
| CCBNS-MM-RG316DS-36 | RG316 Double Shielded Cable, SMA Male/BNC Male, Straight | 36"    |



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