

Product Features

P1-NP/NP-RD316-36 is a cable that is part of P1dB's RG series flex cable assemblies. It is a 36 inch N Male to N Male cable assembly that utilizes RD316 Double-Shielded RG Type Flex coax, which is 0.114 inches in diameter. This Double-Shielded RG Type Flex cable operates to 6 GHz with a max VSWR of 1.35:1. P1dB's Double-Shielded RG Type Flex cable assemblies are general purpose commercial grade cables that meet dimensional and electrical specifications of QPL cables. Double-Shielded RG Type Flex cables can operate up to 6 GHz, depending on the installed connectors. The advantage of RG type commercial cables over QPL cables is their lower cost, since they do not go through the stringent environmental, mechanical and certification testing required for military grade, QPL equivalents.



Electrical Specification: T_{Ambient} = 25° C

| Parameter | Frequency Range | Units | Min | Typical | Max | Notes |
|-------------------------|-----------------|--------|-----|---------|------|-------|
| Frequency Range | | GHz | DC | | 6.0 | |
| VSWR | DC to 0.4 | 1: | | | 1.2 | |
| | 0.4 to 1.0 | | | | 1.25 | |
| | 1.0 to 2.4 | | | | 1.3 | |
| | 2.4 to 5.0 | | | | 1.35 | |
| Insertion Loss | DC to 0.4 | dB/ft. | | | 0.18 | |
| | 0.4 to 1.0 | | | | 0.31 | |
| | 1.0 to 2.4 | | | | 0.49 | |
| | 2.4 to 5.0 | | | | 0.67 | |
| Velocity Of Propagation | | % | | 69.5 | | |

Mechanical And Environmental Specifications:

| Parameter | Description | Notes | | |
|--------------------------|------------------------------------|-------|--|--|
| Connector 1 | N Male | | | |
| Connector 1 Coupling Nut | Tin-Zinc-Copper-Alloy Plated Brass | | | |
| Connector 1 Body | Tin-Zinc-Copper-Alloy Plated Brass | | | |
| Connector 1 Contact | Gold Plated Brass | | | |
| Connector 2 | N Male | | | |
| Connector 2 Coupling Nut | Tin-Zinc-Copper-Alloy Plated Brass | | | |
| Connector 2 Body | Tin-Zinc-Copper-Alloy Plated Brass | | | |
| Connector 2 Contact | Gold Plated Brass | | | |
| Coax Cable | Double-Shielded RG Type Flex | | | |
| Cable Type | RD316 | | | |
| Cable Inner Conductor | 7/.0067 SPCW | | | |
| Dielectric | PTFE | | | |
| Shield | 1. SPC Braid | | | |
| | 2. SPC Braid | | | |

P1dB. Inc.

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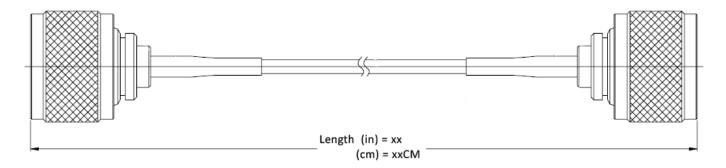
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N Male to N Male, RD316 Double-Shielded Flex Coax, 36 inch, DC to 6 GHz.

| Parameter | Description | Notes |
|----------------------|-------------------|-------|
| Jacket | FEP | |
| Coax Diameter | 0.114 | |
| Minimum Bend Radius | 0.6 | |
| Length | 36.0 | |
| Operating Temprature | -55.0 to 200.0 °C | |
| RoHS Compliance | Yes | |

Drawing



Product Notes