

# MICROBEND MVR-12, SMPM (female), 1.85 mm (male), ruggedized, 50 Ohm, 65 GHz, 12 in, 304.8 mm

## MICROBEND MVR-12

### Properties

- Applicable up to 65 GHz
- Part of the "bend-to-the-end" MINIBEND product family
- Direct replacement for 047 size Semi-Rigid cables
- Tightest bend radius in the MINIBEND family
- Solderless cable junction
- Compliant to MIL-DTL-17 (cable) and MIL-PRF-39012 (connectors)



### Product configuration

|                              |                          |
|------------------------------|--------------------------|
| Type of cable                | MICROBEND R (3204IE)     |
| Type description connector A | 29971CR-32-41            |
| Series connector A           | SMPM, straight - plug    |
| Type description connector B | 29890CR-32-41-1          |
| Series connector B           | PC 1.85, straight - plug |
| Length                       | 304.8 mm                 |
| Length                       | 12 inch                  |
| Length type                  | REF to REF               |

### Electrical data

|                          |             |
|--------------------------|-------------|
| Impedance                | 50 $\Omega$ |
| Max. operating frequency | 65 GHz      |
| VSWR max                 | 1.8         |
| Propagation velocity     | 70 %        |

### Electrical Data (frequency related)

| Frequency range     | Return loss | VSWR max | Insertion loss |
|---------------------|-------------|----------|----------------|
| 0 GHz ... 12.4 GHz  | 16.98 dB    | 1.33     | 1.45 dB        |
| 12.4 GHz ... 18 GHz | 15.56 dB    | 1.4      | 1.77 dB        |
| 18 GHz ... 40 GHz   | 12.74 dB    | 1.6      | 2.85 dB        |
| 40 GHz ... 65 GHz   | 10.88 dB    | 1.8      | 3.76 dB        |

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| Mechanical data        |                   |
|------------------------|-------------------|
| Cable diameter         | 1.91 mm           |
| Static bending radius  | 1.52 mm           |
| Dynamic bending radius | 4.57 mm           |
| Environmental data     |                   |
| Operation temperature  | -55 °C ... 125 °C |
| Ordering information   |                   |
| Item number            | Item description  |
| 80336614               | MICROBEND MVR-12  |

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