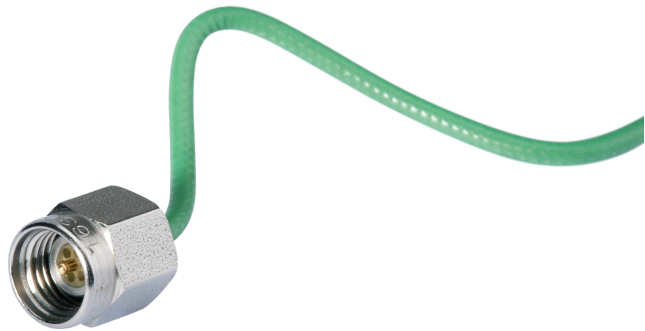


# MICROBEND KR-2.5, 2.9mm (male), 2.9mm (male), ruggedized, 50 Ohm, 40 GHz, 2.5 in, 63.5 mm

## MICROBEND KR-2.5

### Properties

- Applicable up to 40 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)
- Lead-free solder for RoHS compliance



### Product configuration

|                              |                         |
|------------------------------|-------------------------|
| Type of cable                | MICROBEND R (3204IE)    |
| Type description connector A | 29094KCR-32-41          |
| Series connector A           | PC 2.9, straight - plug |
| Type description connector B | 29094KCR-32-41          |
| Series connector B           | PC 2.9, straight - plug |
| Length                       | 63.5 mm                 |
| Length                       | 2.5 inch                |
| Length type                  | REF to REF              |

### Electrical data

|                          |             |
|--------------------------|-------------|
| Impedance                | 50 $\Omega$ |
| Max. operating frequency | 40 GHz      |
| VSWR max                 | 1.55        |
| Max. insertion loss      | 0.99 dB     |
| Propagation velocity     | 70 %        |

### Electrical Data (frequency related)

| Frequency range     | Return loss | VSWR max | Insertion loss |
|---------------------|-------------|----------|----------------|
| 0 GHz ... 2 GHz     | 20.82 dB    | 1.2      | 0.21 dB        |
| 2 GHz ... 18 GHz    | 16.13 dB    | 1.37     | 0.58 dB        |
| 18 GHz ... 26.5 GHz | 14.71 dB    | 1.45     | 0.72 dB        |
| 26.5 GHz ... 40 GHz | 13.32 dB    | 1.55     | 0.99 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  |
| 80336568               | MICROBEND KR-2.5  |

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