

# DATA SHEET

|                 |          |                       |              |
|-----------------|----------|-----------------------|--------------|
| <b>Item no.</b> | 50051250 | <b>Connector type</b> | 7/16M-512/50 |
|                 |          | <b>For cable</b>      | 1/2"-50      |

**Frequency Range**  
**Impedance** (Nom.)

|               |
|---------------|
| 50 - 6000 MHz |
| 50 Ω          |
|               |
|               |

**Shielding Effectiveness**(CoMeT)

|                        |
|------------------------|
| >135 dB @ 50-1000MHz   |
| >130 dB @ 1000-3000MHz |

**All tests performed using instruments calibrated in accordance to our ISO 9001 certification. Further technical specifications and installation instructions can be obtained on request.**



**Return Loss** (IEC 61169-1)  
(Rhode und Schwarz ZVB-8)

|                 | Better than | Typical  |
|-----------------|-------------|----------|
| 50 - 1000 MHz   | -35 dB      | -38,3 dB |
| 1000 - 2000 MHz | -33 dB      | -35,6 dB |
| 2000 - 3000 MHz | -31 dB      | -34,2 dB |
| 3000 - 4000 MHz | -31 dB      | -34,2 dB |
| 4000 - 6000 MHz | -22 dB      | -25,0 dB |
| 900 MHz         | -36 dB      | -38,9 dB |
| 1800 MHz        | -34 dB      | -37,0 dB |
| 2450 MHz        | -34 dB      | -37,0 dB |

**Insertion Loss Max.**

|                 | Better than | Typical  |
|-----------------|-------------|----------|
| 50 - 1000 MHz   | -0,06 dB    | -0,01 dB |
| 1000 - 2000 MHz | -0,06 dB    | -0,01 dB |
| 2000 - 3000 MHz | -0,06 dB    | -0,01 dB |
| 3000 - 4000 MHz | -0,06 dB    | -0,01 dB |
| 4000 - 6000 MHz | -0,10 dB    | -0,05 dB |
| 900 MHz         | -0,06 dB    | -0,01 dB |
| 1800 MHz        | -0,06 dB    | -0,01 dB |
| 2450 MHz        | -0,06 dB    | -0,01 dB |

**Temperature**

|            |                |
|------------|----------------|
| Installing | -5° to +50° C  |
| Operating  | -40° to +85° C |
| Storing    | -40° to +85° C |

**Intermodulation**

|                    |            |                  |
|--------------------|------------|------------------|
| 3rd Order (@2x20W) | <b>IM3</b> | <b>IP3-value</b> |
|                    | -117 dBm   | +123 dBm         |

**Inner Conductor Resistance**

|          |        |
|----------|--------|
| @ 1 A DC | 1,3 mΩ |
|----------|--------|

**Sealing Test**  
(IEC IP-code)

|       |                    |
|-------|--------------------|
| IP X8 | 30 meter / 8 hours |
|-------|--------------------|

**Insulation Resistance**  
(@ 500 VDC)

|         |
|---------|
| >200 GΩ |
|---------|

**O-rings**

|      |
|------|
| EPDM |
|------|

**Dielectric Strength**  
DC Test Voltage

|        |
|--------|
| 5,0 KV |
|--------|

**Base Material**

|                 |                               |
|-----------------|-------------------------------|
| Body Parts      | Brass CuZn39Pb3 / POM C9021LS |
| Inner Conductor | Tin Bronze                    |

**Max. Tensile Strength**

|         |         |
|---------|---------|
| Overall | 160 Kgf |
|         | 1569 N  |

**Plating**

|                 |         |
|-----------------|---------|
| Body Parts      | Nitin-6 |
| Inner Conductor | Silver  |

**Torsional Strength**  
(Connector / Cable)

|         |
|---------|
| 10,0 Nm |
|---------|

**Insulators**

|     |
|-----|
| TPX |
|-----|

**Test performed by**  
**Date of release**

|                    |
|--------------------|
| Sven-Erik Sandberg |
| January 07, 2010   |

**Remarks**

Data can be optimised after adjustments to specific brands and types of cables.

ISO 9001:2000 / ISO 14001 certified

Distributor:

