Description
High flexible Test Lead for Passive Intermodulation (PIM) and Return Loss with armour cable and 1x 4.3-10 male straight (screw version) and 1x DIN 7/16 male straight connectors for frequency up to 4 GHz.

ID (Material/Item No.) 85029280
Description (Product) TL-P-11431X-11716-03000-51

Product Configuration
Length of Assembly 3000 mm +/- 30 mm (118.1 +/- 1.18 in)
Connectors 4.3-10 (screw) straight male / DIN 7/16 straight male
Coupling nuts: Steel / 431X: HEX.22 mm / DIN: Hex.32 mm
Body: Brass / SUCOPLATE®,
Center Contact: Cu-Be / Gold plated
Cable Inner Conductor: Copper / Silver plated wire
Dielectric: PTFE
Outer Conductor: Braid / Tin plated
Jacket Armour: TPU black / max. Ø 10.4 mm

Technical Data
Mechanical Data
Connector Interface IEC 61169-54 /4  Bending Radius: min. 50 mm (1.97 in)
Mating cycle *) > 2000 repeated (50x) min. 80 mm (3.15 in)
Retention Force < 200 N dynamic min. 110 mm (4.30 in)
Weight 0.590 kg (1.30 lb)
Mating Torque (Recom.) 431X: 5 Nm / DIN: 20 Nm
Crush Resistance 80 kN/m

Environmental Data
Operating Temperature - 15°C to + 65°C
Installation Temperature - 10°C to + 55°C
Storage Temperature - 40°C to + 85°C
RoHS, REACH compliant
Water protection IP 67, in mated condition

Electrical Data
Impedance 50 Ω +/- 2 Ω
Operating Frequency up to 4 GHz
Velocity of propagation 71 %
Capacitance 92 pF / m
Dielectric withstand voltage 5 kV rms
Screening effectiveness > 110 dB up to 4 GHz
Passive Intermodulation **) ≥ -117 dBm (-160 dBc)
Frequency 1.0 GHz | 2.0 GHz | 3.0 GHz | 4.0 GHz
Return Loss - 29 dB | - 26 dB | - 23 dB | - 20 dB
Attenuation (max. at 25°C) 1.45 dB | 2.10 dB | 2.60 dB | 3.05 dB
Power handling (seal level at 40°C) 560 W | 390 W | 320 W | 280 W

General Information
*) Number of Mating With use of torque wrench at recommended value, clean interface after each 20 mating’s.
**) PIM Testing Mated with connectors according IEC or MIL standard.
100%, according IEC 62037-2