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ENGINEERING DATA:

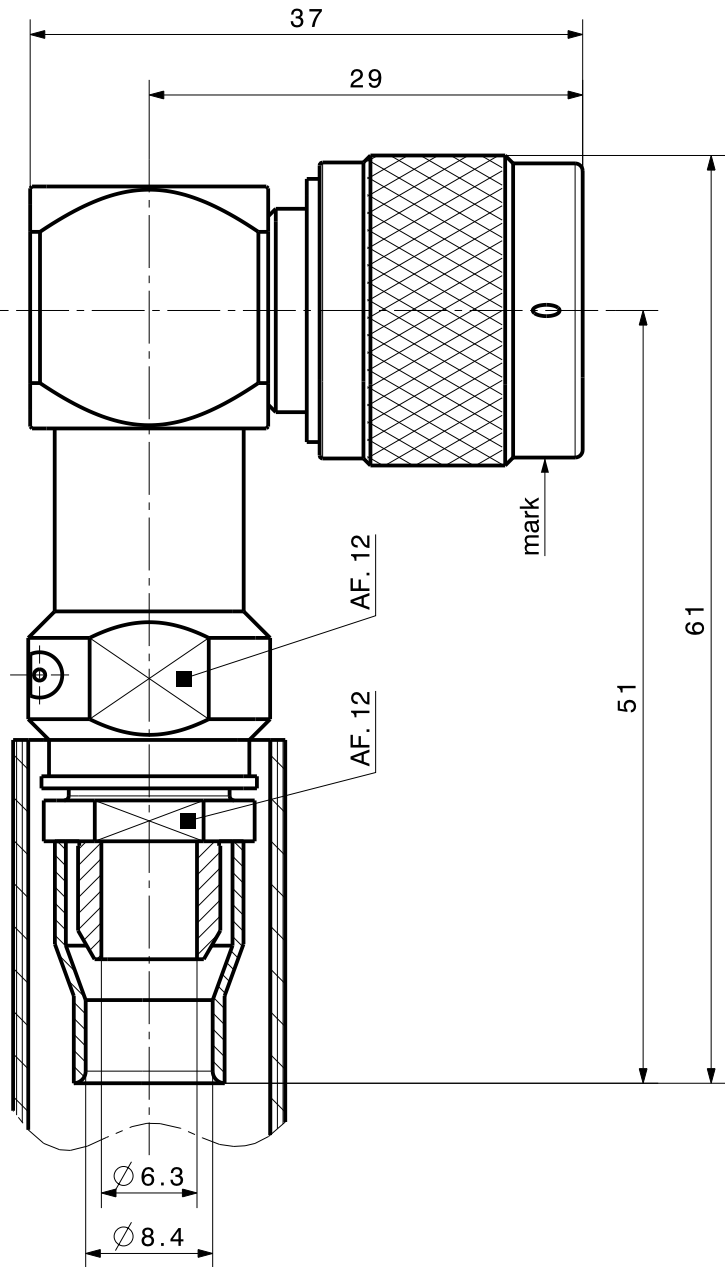
Sealing against splashing water

Temperature rating : -65°C / 165°C

Material: Body : Brass, nickel-plated  
Nut : Brass, nickel-plated  
Insulator : PTFE  
Inner conductor : Brass / Beryllium-copper : gold-plated

Nominal impedance : 50 Ohm  
Frequency range : 0.1 to 3 GHz  
Voltage rating : 1000 V eff.  
Insulation resistance : ≥ 5 GOhm

Inner conductor : Hole Dia 2.5 mm



QUALIFICATION - TESTS

Examination or test	Method	Test Req.	Value paragraph	Remarks Spec.
Material	4.6.1	a.	3.3	MIL-C-39012
Finish	4.6.1	a.	3.3.1	MIL-C-39012
Dissimilar metals	4.6.1	n.a.	-	-
Design and construction (dimension)	4.6.1.1	a.	3.4	MIL-C-39012
Marking	4.6.1	a.	3.29	MIL-C-39012
Mating (visual indication)	4.6.1	a.	3.4.1	MIL-C-39012
Bajonet and threaded types	4.6.2.1	a.	≤ 0.68 Nm	-
Coupling proof torque	4.6.3	a.	> 1.7 Nm	-
Mating characteristics	4.6.4	a.	304.1	MIL-STD-348
Permeability of nonmagnetic materials	4.6.5	n.a.	-	-
Workmanship	4.6.1	a.	3.30	MIL-C-39012
Hermetic seal (pressurized connectors only)	4.6.6	n.a.	-	-
Leakage (pressurized connectors only)	4.6.7	n.a.	-	-
Insulation resistance	4.6.8	a.	≥ 5 GOhm ≥ 200 MOhm	initial after environment

Centre contact retention	4.6.9	n.a.	-	-
Corrosion	4.6.10	a.	48 h	1 pair only

Voltage standing-wave ratio	4.6.11	a.	1.35	0.1 to 3 GHz
Connector durability	4.6.12	n.a.	-	(know-how manufacturer)

Centre contact resistance	4.6.13	a.	1.5 mOhm 2.0 mOhm	initial after environment
Dielectric withstanding voltage	4.6.14	a.	≥ 2.5 kV rms	-
Vibration	4.6.15	a.	Meth. 204 Cond. B	MIL-STD-202
Shock (specified pulse)	4.6.16	n.a.	-	-
Thermal shock	4.6.17	a.	Meth. 107 Cond. C	MIL-STD-202
Moisture resistance	4.6.18	a.	Meth. 106	MIL-STD-202
Corona level	4.6.19	a.	≥ 500 V rms	23'000 m
RF high potential withstanding voltage	4.6.20	n.a.	-	-
Cable retention force	4.6.21	a.	≥ 400 N	-
Coupling mechanism retention force	4.6.22	a.	≥ 445 N	1 pair only

RF leakage	4.6.23	n.a.	-	-
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RF insertion loss	4.6.24	n.a.	-	-
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Contact resistance inner conductor	4.6.13	a.	1.5 mOhm	initial
Contact resistance outer conductor	4.6.13	a.	0.85 mOhm	initial
Contact resistance: braid/point of contact	4.6.13	a.	0.55 mOhm	initial

Group I

Method	Test Req.	Value paragraph	Remarks Spec.
4.6.1	a.	3.3	MIL-C-39012
4.6.1	a.	3.3.1	MIL-C-39012
4.6.1	n.a.	-	-
4.6.1.1	a.	3.4	MIL-C-39012
4.6.1	a.	3.29	MIL-C-39012
4.6.1	a.	3.4.1	MIL-C-39012
4.6.2.1	a.	≤ 0.68 Nm	-
4.6.3	a.	> 1.7 Nm	-
4.6.4	a.	304.1	MIL-STD-348
4.6.5	n.a.	-	-
4.6.1	a.	3.30	MIL-C-39012
4.6.6	n.a.	-	-
4.6.7	n.a.	-	-
4.6.8	a.	≥ 5 GOhm ≥ 200 MOhm	initial after environment

Group II

4.6.9	n.a.	-	-
4.6.10	a.	48 h	1 pair only

Group III

4.6.11	a.	1.35	0.1 to 3 GHz
4.6.12	n.a.	-	(know-how manufacturer)

Group IV

4.6.13	a.	1.5 mOhm 2.0 mOhm	initial after environment
4.6.14	a.	≥ 2.5 kV rms	-
4.6.15	a.	Meth. 204 Cond. B	MIL-STD-202
4.6.16	n.a.	-	-
4.6.17	a.	Meth. 107 Cond. C	MIL-STD-202
4.6.18	a.	Meth. 106	MIL-STD-202
4.6.19	a.	≥ 500 V rms	23'000 m
4.6.20	n.a.	-	-
4.6.21	a.	≥ 400 N	-
4.6.22	a.	≥ 445 N	1 pair only

Group V

4.6.23	n.a.	-	-
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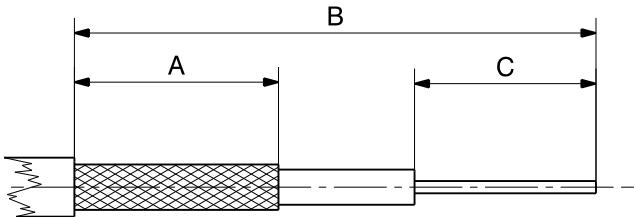
Group VI

4.6.24	n.a.	-	-
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Group VII

4.6.13	a.	1.5 mOhm	initial
4.6.13	a.	0.85 mOhm	initial
4.6.13	a.	0.55 mOhm	initial

CABLE PREPARATION



Cable	Striping dimensions		
	A	B	C
WD	9	27	9

TOOLS REQUIRED

	Crimp tool	Positioner	Positioner	Selector
		Die	Color	setting
Inner contact	M 22520/1-01	M 22520/1-13	Red	8
Outer contact	M 22520/5-01	M 22520/5-61	--	--