



SUCOTEST CABLE ASSEMBLIES FOR THE HIGHEST STANDARD OF MEASUREMENT

SUCOTEST™
be precise.



TEST + MEASUREMENT WITH SUCOTES

Highest Performance

SUCOTEST 18 cable assemblies feature an excellent electrical performance (lowest insertion loss combined with excellent stability, high return loss) and are thus designated for the daily use in components and assembly shops, test labs and automatic test equipment applications.

Thanks to these characteristics, SUCOTEST 18 cable assemblies excel by their high user friendliness and reliability.



TTM – PRECISION ON A CONSTANT HIGH

Unique handling performance – dimensionally stable and robust

Benefit

- Precise and constant measurement result due to excellent electric performance
- Unique handling due to newly designed N Nut, short taper sleeve and cable without any bouncing effect
- Low measurement costs thanks to all SUCOTEST performances

Applications

- Test labs
- Test procedures in components and assembly shops
- Automatic test equipment

SUCOTEST 18 assemblies are especially designed for high volume applications where a permanent use is key (repeated connection/disconnection procedures) and where measurement cable wear normally quickly appears.

SUCOTESTTM
be precise.



LEVEL

Comprehensive assortment for every application



Product Assortment

	Order No.
ST-18/SMAM/SMA/m/36"	84002060
ST-18/Nm/Nm/36"	84002061
ST-18/SMAM/Nm/36"	84004594
ST-18/SMAM/SMAM/48"	84003372
ST-18/Nm/Nm/48"	84003373
ST-18/SMAM/Nm/48"	84004006
ST-18/SMAM/SMAM/72"	84004070
ST-18/Nm/Nm/72"	84004007
ST-18/SMAM/Nm/72"	84004595



SUCOTEST Precision Adaptors

Series N / Stainless Steel

Within-series adaptor:
jack (female) - jack (female)

H+S Type	Order No.
31_N-50-0-51/199_NE	22652112



Series SMA / Stainless Steel

Within-series adaptor:
jack (female) - jack (female)

H+S Type	Order No.
31_SMA-50-0-51/199_NE	22641486

Return Loss

dB	up to 2 GHz	2.01 - 4.0 GHz	4.01 - 6.0 GHz	6.01 - 12.0 GHz	12.01 - 18.0 GHz
N	>32	>29	>27	>23	>20
SMA	>30	>29	>28	>25	>23

Outstanding Features

- Applicable up to 18.0 GHz
- Lowest insertion loss
- Lowest VSWR
- Excellent stability
- The cable bounds not back during the measurement procedure, the assembly keeps the position

Electrical specifications

Impedance	50 Ohm
Operating frequency	18 GHz
Velocity of propagation	77 %
Capacitance	87 pF/m / 26.5 pF/ft
Time delay	4.3 ns/m / 1.31 ns/ft
Insulation resistance	> 5 x 10 ³ Mega Ohm
Dielectric withstand voltage	2500 V rms
Screening effectiveness	> 90 dB

	up to 2.0 GHz	2.01 - 4.0 GHz	4.01 - 6.0 GHz	6.01 - 12.0 GHz	12.01 - 18.0 GHz
Power handling, 25°C, sea level (W)	> 391	> 277	> 225	> 160	> 131
Return loss (dB)	> 30	> 28	> 25	> 21	> 19
Insertion loss (dB)	see table	see table	see table	see table	see table
Insertion loss stability vs. shaking (dB)	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Insertion loss stability vs. bending (dB)	< 0.03	< 0.04	< 0.04	< 0.05	< 0.05
Insertion loss stability vs. torsion (dB)	< 0.03	< 0.04	< 0.04	< 0.05	< 0.05

General specifications

		Materials and finishes	
Assembly length	see table	Cable jacket	FEP, blue
Cable diameter	4.6 mm / 0.181 inch	Cable dielectric	Low density PTFE
Temperature range	-55...+105 °C	Taper sleeve	Santoprene / black
Preferred bending radius	100 mm / 4.0 inch	Marking sleeve	Crosslinked polyolefin / white
Connector retention force	> 200 N	Connector contacts	Beryllium - copper, gold plated
Recommended mating torque SMA	0.8 ... 1.1 Nm / 7.1 ... 9.7 in.lbs	Connector insulation	PTFE
Recommended mating torque N	0.68 ... 1.13 Nm / 6.0 ... 10.0 in.lbs	Connector body	Stainless steel, passivated
Durability	> 500 matings	Connector nut	Stainless steel, passivated
Connector interface SMA	MIL-STD-348A/310	Gasket	Silicon rubber
Connector interface N	MIL-STD-348A/304		
Weight	see table		

Product specific data

	Assembly length (ref. plane to ref. plane)	Weight	Insertion loss				
			up to 2.0 GHz	2.01 - 4.0 GHz	4.01 - 6.0 GHz	6.01 - 12.0 GHz	12.01 - 18.0 GHz
ST-18/SMAm/SMAm/36	914 mm / 36 inch	68 gram	< 0.48 dB	< 0.68 dB	< 0.84 dB	< 1.21 dB	< 1.51 dB
ST-18/Nm/Nm/36	914 mm / 36 inch	110 gram	< 0.48 dB	< 0.68 dB	< 0.84 dB	< 1.21 dB	< 1.51 dB
ST-18/SMAm/Nm/36	914 mm / 36 inch	90 gram	< 0.48 dB	< 0.68 dB	< 0.84 dB	< 1.21 dB	< 1.51 dB
ST-18/SMAm/SMAm/48	1219 mm / 48 inch	80 gram	< 0.61 dB	< 0.88 dB	< 1.09 dB	< 1.57 dB	< 1.95 dB
ST-18/Nm/Nm/48	1219 mm / 48 inch	122 gram	< 0.61 dB	< 0.88 dB	< 1.09 dB	< 1.57 dB	< 1.95 dB
ST-18/SMAm/Nm/48	1219 mm / 48 inch	101 gram	< 0.61 dB	< 0.88 dB	< 1.09 dB	< 1.57 dB	< 1.95 dB
ST-18/SMAm/SMAm/72	1829 mm / 72 inch	108 gram	< 0.89 dB	< 1.28 dB	< 1.58 dB	< 2.29 dB	< 2.85 dB
ST-18/Nm/Nm/72	1829 mm / 72 inch	157 gram	< 0.89 dB	< 1.28 dB	< 1.58 dB	< 2.29 dB	< 2.85 dB
ST-18/SMAm/Nm/72	1829 mm / 72 inch	134 gram	< 0.89 dB	< 1.28 dB	< 1.58 dB	< 2.29 dB	< 2.85 dB



HUBER+SUHNER group is certified according to ISO 9001 and ISO 14001.

Waiver

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