

# SUCOTEST 18

## For the highest standard of measurement

### Content

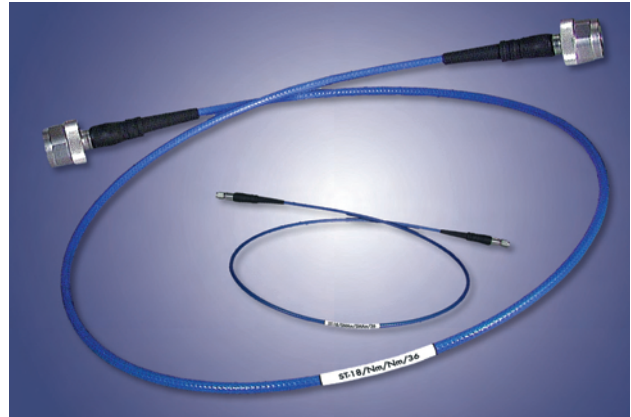
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# SUCOTEST\_18

## For the highest standard of measurement

### Product description

SUCOTEST\_18 cable assemblies feature excellent electrical performance (low insertion loss combined with unique loss stability and excellent return loss). SUCOTEST\_18 is ideal for daily use in components and assembly shops, test labs and automatic test equipment applications.



### Product assortment

Item no.

SUCOTEST_18/SMAM/SMAM/36"	84002061
SUCOTEST_18/Nm/Nm/36"	84002060
SUCOTEST_18/SMAM/Nm/36"	84004594
SUCOTEST_18/SMAM/SMAM/48"	84003373
SUCOTEST_18/Nm/Nm/48"	84003372
SUCOTEST_18/SMAM/Nm/48"	84004006
SUCOTEST_18/SMAM/SMAM/72"	84004007
SUCOTEST_18/Nm/Nm/72"	84004070
SUCOTEST_18/SMAM/Nm/72"	84004595

### Outstanding Features

- Applicable up to 18.0 GHz
- Low insertion loss
- Excellent VSWR
- Unique loss stability
- There is no cable spring back during measurement procedures; the assembly stays in position.

SUCOTEST

# SUCOTEST 18 - specifications

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 <sup>3</sup> Mega Ohm
Dielectric withstand voltage	2500 V rms

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

Product specific data							
HUBER+SUHNER cable type	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