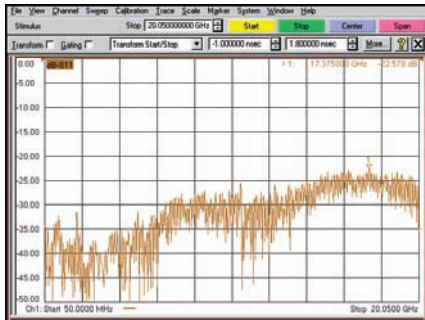
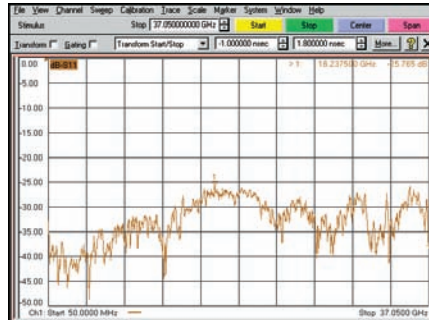


Rosenberger® SMA⁺ Cables

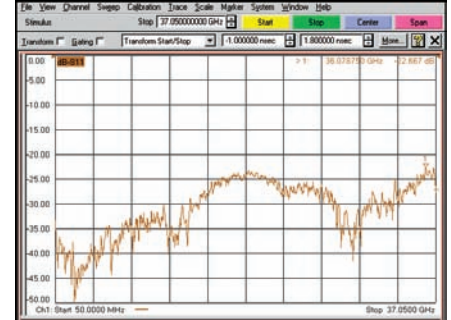
THE PLUS MEANS 36GHz PERFORMANCE AT



Mated with SMA



Mated with 3.5mm



Mated with 2.92mm

Features and Benefits

- High-performance, high-frequency test cables built for day-to-day applications
- Available in Rosenberger RTK-Flex 405 (flexible) cable or RTK-FS-085 (conformable) cable. Or, special order in 085 semi-rigid cable built to your specifications
- Excellent performance over a broad frequency range (see charts above)
- Standard SMA interface — intermatable with SMA, 3.5mm and 2.92mm (K*) connectors
- Gold-plated center contacts, passivated stainless steel coupling nuts and a proprietary dielectric
- Unique over-molded strain relief is exceptionally rugged and durable
- Temperature range: -55°C to +125°C
- Minimum return loss: -18dB when mated with SMA, 3.5mm or 2.92mm (K*) connectors

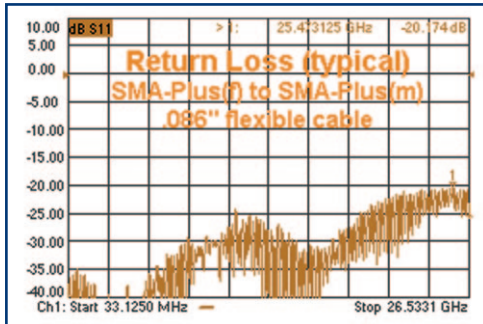
* K Connector® is a registered trademark of Anritsu Corporation



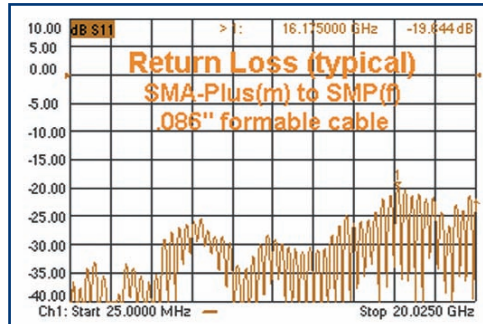
SMA+ Female Connector



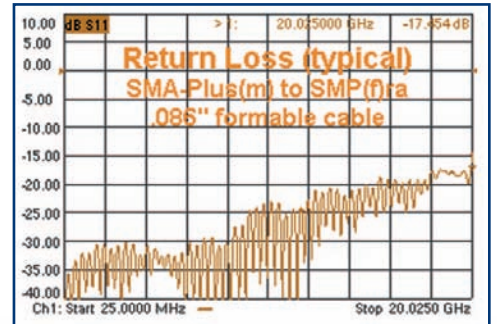
A FRACTION OF THE COST.



Mated with SMA+f



Mated with SMP f



Mated with SMPf r/a

ELECTRICAL SPECIFICATIONS* RTK Flex 405 & RTK FS405

IMPEDANCE, NOMINAL	50 OHMS
OPERATING FREQUENCY (GHz)	36
CAPACITANCE NOMINAL	29.4 pF/ft
VELOCITY OF PROPAGATION, NOMINAL	70.0 %
RELATIVE SHIELDING	-110.0 dB MIN.
INSULATION RESISTANCE	1000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE	1000 VRMS MIN.
ELECTRICAL DELAY, NOMINAL	1.43 ns/ft or 120 ps/INCH
PULSE RF POWER	500 WATTS MAX

(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)

FREQUENCY (GHz) ----->	1	6	10	18	26	36
PHASE STABILITY (DEG) TYP	<1	<2	<3	<5	<7	<9
LOSS STABILITY (dB)* ----->	0.10	0.20	0.03	0.40	0.60	0.80

*CABLE FORMED AND STRAIGHTENED 90 DEGREES ON A 4" RADIUS

MECHANICAL SPECIFICATIONS* RTK Flex 405 & RTK FS405

CABLE MAX. DIAMETER	0.104 INCHES	2.64 mm
MIN. ONE TIME BEND RADIUS	0.75 INCHES	1.91 cm
PREFERRED BEND RADIUS	2.00 INCHES	5.08 cm
CONNECTOR RETENTION	10 POUNDS MIN.	44.5 N MIN
TEMPERATURE RANGE	-55 to +125 DEGREES C	
MATING TORQUE	7-10 INCH POUNDS	.8-1.13 N-m
CONNECTOR INTERFACE	MIL-STD-348 HYBRID	

SMP f



SMP f r/a

MATERIALS AND FINISHES* RTK Flex 405 & RTK FS405

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET	FEP	BLUE
MARKER	MIL-I-23053	BLACK or WHITE
BOOTS	ATUM	BLACK
CONTACTS	Brass or BeCu	GOLD PLATED
INSULATORS	PROPRIETARY DIELECTRIC	BLUE
CONNECTOR BODIES	Brass or BeCu	GOLD PLATED
CONNECTOR NUTS	STAINLESS STEEL	PASSIVATED
GASKET	ZZ-R-765 SILICON RUBBER	

*Consult factory for additional configurations and options

	Part # RoHS Compliant	OAL in FT.	IL (dB) NOTE 1	Ret Ls (dB) NOTE 2
SMA+m-SMA+m RTK Flex 405	L71-404-305	1.0	1.4	25
	L71-404-457	1.5	1.9	25
	L71-404-610	2.0	2.4	25
	L71-404-915	3.0	3.5	25
	L71-404-1220	4.0	4.5	25
	L71-404-1830	6.0	5.6	25
SMA+m-SMA+f RTK Flex 405	L71-438-305	1.0	1.4	20
	L71-438-457	1.5	1.9	20
	L71-438-610	2.0	2.4	20
	L71-438-915	3.0	3.5	20
	L71-438-1220	4.0	4.5	20
	L71-438-1830	6.0	5.6	20
SMA+m-SMPf RTK FS 405	L71-799-102	.33	0.6	18
	L71-799-153	.50	0.8	18
	L71-799-203	.67	1.0	18
	L71-799-305	1.0	1.4	18
	L71-799-457	1.5	1.9	18

	Part # RoHS Compliant	OAL in FT.	IL (dB) NOTE 1	Ret Ls (dB) NOTE 2
SMA+m-SMPf r/a RTK FS 405	L71-800-102	.33	0.6	18
	L71-800-153	.50	0.8	18
	L71-800-203	.67	1.0	18
	L71-800-305	1.0	1.4	18
	L71-800-457	1.5	1.9	18
SMA+f-SMPf RTK FS 405	L71-801-102	.33	0.6	18
	L71-801-153	.50	0.8	18
	L71-801-203	.67	1.0	18
	L71-801-305	1.0	1.4	18
	L71-801-457	1.5	1.9	18
SMA+f-SMPf r/a RTK FS 405	L71-802-102	.33	0.6	18
	L71-802-153	.50	0.8	18
	L71-802-203	.67	1.0	18
	L71-802-305	1.0	1.4	18
	L71-802-457	1.5	1.9	18

Note 1 – Insertion Loss in dB (Typ.) at mid-band
Note 2 – Return Loss in dB (Typ.) at mid-band.

Warranty – If there is a connector failure during the first six months following shipment, we will repair or replace (at our option) your cable (providing the damage was not caused by misuse or abuse).