

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - High Quality RF Connectors - Industry Standard Low Loss Shielded Cable Options - 50Ω Impedance Matched Connectors and Cables - Custom Cable Lengths Available. - Each Assembly Is Fully Tested Ensuring Highest Quality 	<ul style="list-style-type: none"> - High Speed Transmission - GPS and Mobile Communications - Bluetooth And IEEE802.11a/b/g - Smart Grid / Industrial / Security - Test And Measurement Applications



PART NUMBERING GUIDE

SUNTSU → **S** **CB** **RF** - **X** **3A** **RA** **A** **P** - **SA** **M** **S** - **SA** **M** **S**

CABLE → CB, RF

RF → RF

***LENGTH (in Ft.)** → X

***FREQUENCY** → 3A, 6A, 12A

CABLE TYPE → RA, A

IMPEDANCE → A, B

CONNECTOR (B) ORIENTATION

S: Straight
R: Right Angle
BLANK: No Connector

CONNECTOR (B) GENDER

M: Male
F: Female
BLANK: No Connector

CONNECTOR (B) TYPE

MX: MCX SA: SMA
MM: MMCX RA: RP-SMA
NY: N-TYPE P1: IPEX - MHF1
NC: No Connector

CONNECTOR (A) ORIENTATION

S: Straight
R: Right Angle
BLANK: No Connector

CONNECTOR (A) GENDER

M: Male
F: Female
BLANK: No Connector

CONNECTOR (A) TYPE

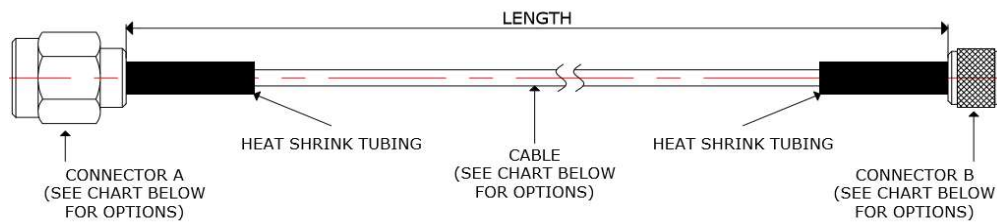
MX: MCX SA: SMA
MM: MMCX RA: RP-SMA
NY: N-TYPE P1: IPEX - MHF1
NC: No Connector

CABLE MATERIAL

P: PVC
F: FEP

* Where letters denote decimal location A=.0, B=.1, C=.2, etc. Ex: B5=0.15, 3A5=3.05, 9A=9.0
To customize your parameters, contact a Suntsu representative.

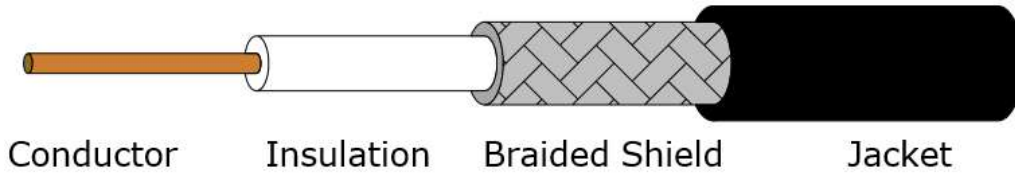
OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



AVAILABLE ASSEMBLIES BY END CONNECTORS AND CABLE TYPE [C=Custom lengths available, please contact Suntsu]

Connector Type		Wire Type											
		RG-58	RG-174	RG-178	RG-213	RG-316	Ø1.37mm	Ø1.32mm	Ø1.13mm	CFD-100	CFD-200	CFD-300	
SMA	Male Straight	X	X	X	X	X	X	X	X	X	X	X	X
	Male Right Angle	X	X	X	X	X	X	X	X	X	X	X	X
	Female Straight	X	X	X	X	X	X	X	X	X	X	X	X
RP-SMA	Male Straight	X	X	X	X	X	X	X	X	X	X	X	X
	Male Right Angle	X	X	X	X	X	X	X	X	X	X	X	X
	Female Straight	X	X	X	X	X	X	X	X	X	X	X	X
N-TYPE	Male Straight	X	X	X	X	X	X	X	X	X	X	X	X
	Male Right Angle	X	X	X	X	X	X	X	X	X	X	X	X
	Female Straight	X	X	X	X	X	X	X	X	X	X	X	X
MCX	Male Straight	X	X	X	X	X	X	X	X	X	X	X	X
	Male Right Angle	X	X	X	X	X	X	X	X	X	X	X	X
	Female Straight	X	X	X	X	X	X	X	X	X	X	X	X
MMCX	Male Straight	X	X	X	X	X	X	X	X	-	-	-	-
	Male Right Angle	X	X	X	X	X	X	X	X	-	-	-	-
	Female Straight	X	X	X	X	X	X	X	X	-	-	-	-
IPEX	Male Right Angle	-	-	X	-	-	X	X	X	-	-	-	-

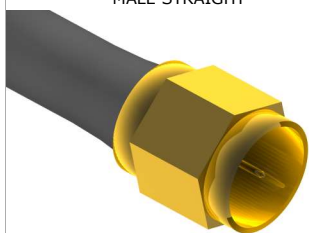
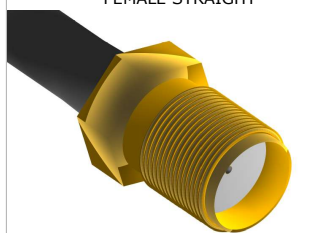
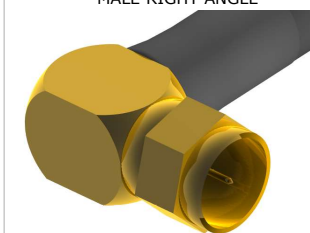
CABLE SPECIFICATIONS (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



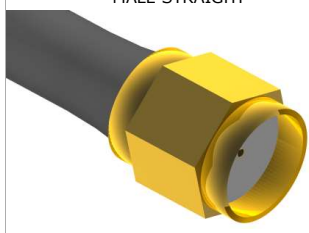
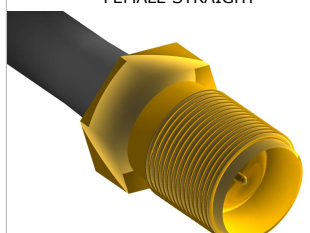
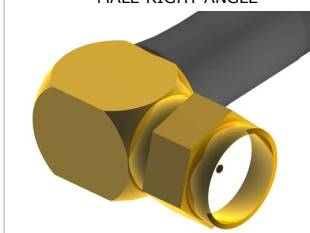
CABLE TYPE	IMPEDANCE	OUTER Ø(mm)	VSWR	CAPACITANCE AT1kHz	JACKET MATERIAL	ATTENUATION					
						10MHz	30MHz	150MHz	220MHz	450MHz	900MHz
RG-58	50Ω ±2.0	4.95 ±0.20	≤2.0	83.6pF/m	PVC	0.98dB/100m	2.0dB/100m	4.3dB/100m	5.2dB/100m	7.7dB/100m	11.2dB/100m
RG-174	50Ω ±2.0	2.70 ±0.10	≤1.05	83.6pF/m	PVC	700MHz	770MHz	1.0GHz	1.575GHz	2.4GHz	-
RG-178	50Ω ±2.0	1.80 ±0.08	≤1.35	105pF/m	Teflon (FEP)	0.72dB/m	0.71dB/m	0.88dB/m	1.12dB/m	1.48dB/m	-
RG-213	50Ω ±2.0	10.2 ±0.20	≤1.10	99.6pF/m	PVC	1.0GHz	2.0GHz	3.0GHz	4.0GHz	5.0GHz	6.0GHz
RG-316	50Ω ±2.0	2.50 ±0.08	≤1.20	98pF/m	Teflon (FEP)	1.7dB/m	2.42dB/m	3.08dB/m	3.63dB/m	4.15dB/m	4.8dB/m
Ø1.37mm	50Ω ±2.0	1.37 ±0.05	≤1.35	105pF/m	Teflon (FEP)	10MHz	30MHz	100MHz	200MHz	1.0GHz	2.4GHz
Ø1.32mm	50Ω ±2.0	1.32 ±0.08	≤1.35	105pF/m	Teflon (FEP)	1.8dB/100m	3.5dB/100m	6.2dB/100m	8.8dB/100m	22.4dB/100m	39.2dB/100m
Ø1.13mm	50Ω ±2.0	1.13 ±0.05	≤1.35	98pF/m	Teflon (FEP)	1.0GHz	2.0GHz	3.0GHz	4.0GHz	5.0GHz	6.0GHz
CFD-100	50Ω ±2.0	2.80 ±0.10	≤1.20	101.1pF/m	PVC	1.25dB/m	1.68dB/m	1.95dB/m	2.45dB/m	3.03dB/m	3.53dB/m
CFD-200	50Ω ±2.0	5.0 ±0.15	≤1.20	80pF/m	PVC	1.0GHz	2.0GHz	3.0GHz	4.0GHz	5.0GHz	6.0GHz
CFD-300	50Ω ±2.0	7.6 ±0.10	1.3 MAX	77pF/m	PVC	1.74dB/m	2.54dB/m	2.92dB/m	3.5dB/m	4.16dB/m	4.5dB/m
						1.0GHz	2.0GHz	3.0GHz	4.0GHz	5.0GHz	6.0GHz
						2.2dB/m	3.1dB/m	3.9dB/m	4.5dB/m	5.0dB/m	5.5dB/m
						1.0GHz	2.0GHz	3.0GHz	4.0GHz	5.0GHz	6.0GHz
						2.2dB/m	3.1dB/m	3.9dB/m	4.5dB/m	5.0dB/m	5.5dB/m
						30MHz	150MHz	220MHz	1500MHz	1800MHz	2000MHz
						12.9dB/100m	29.4dB/100m	35.8dB/100m	98.7dB/100m	109.0dB/100m	115.5dB/100m
						30MHz	150MHz	220MHz	1500MHz	2000MHz	5800MHz
						5.8dB/100m	13.1dB/100m	15.9dB/100m	42.4dB/100m	49.3dB/100m	86.5dB/100m
						30MHz	150MHz	220MHz	1500MHz	2000MHz	5800MHz
						2.5dB/100m	7.9dB/100m	9.6dB/100m	26.0dB/100m	30.3dB/100m	54.3dB/100m

CONNECTOR ELECTRICAL PARAMETERS

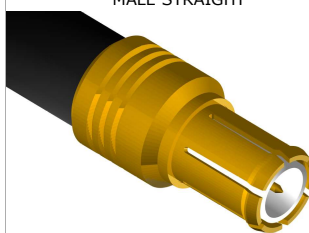
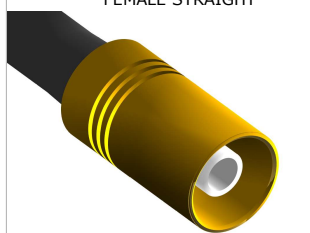
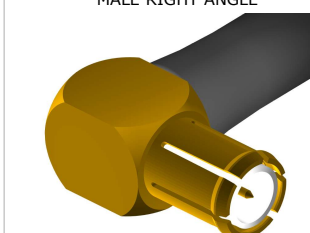
SMA

MALE STRAIGHT	FEMALE STRAIGHT	MALE RIGHT ANGLE	VSWR	≤1.5	
			Impedance	50Ω ±2Ω	
			Working Voltage	≤170Vrms	
			Dielectric Withstanding	≤500Vrms	
			Insulation Resistance	≥2000MΩ	
			Working Temperature	-65°C - 165°C	
			Contact Resistance	Center	3.0mΩ
				Outer	2.0mΩ
			Material	Body	Brass
				Contact	Brass
				Insulator	Teflon

RP-SMA

MALE STRAIGHT	FEMALE STRAIGHT	MALE RIGHT ANGLE	VSWR	≤1.5	
			Impedance	50Ω ±2Ω	
			Working Voltage	≤250Vrms	
			Dielectric Withstanding	≤670Vrms	
			Insulation Resistance	≥2000MΩ	
			Working Temperature	-65°C - 165°C	
			Contact Resistance	Center	3.0mΩ
				Outer	2.0mΩ
			Material	Body	Brass
				Contact	Brass
				Insulator	Teflon or Delrin

MCX

MALE STRAIGHT	FEMALE STRAIGHT	MALE RIGHT ANGLE	VSWR	≤1.5	
			Impedance	50Ω ±2Ω	
			Working Voltage	≤170Vrms	
			Dielectric Withstanding	≤500Vrms	
			Insulation Resistance	≥1000MΩ	
			Working Temperature	-55°C - 155°C	
			Contact Resistance	Center	5.0mΩ
				Outer	1.0mΩ
			Material	Body	Brass
				Contact	Brass
				Insulator	Teflon

CONNECTOR ELECTRICAL PARAMETERS (CONT.)				
MMCX				
MALE STRAIGHT	FEMALE STRAIGHT	MALE RIGHT ANGLE	VSWR	≤1.5
			Impedance	50Ω ±2Ω
			Working Voltage	≤170Vrms
			Dielectric Withstanding	≤500Vrms
			Insulation Resistance	≥1000MΩ
			Working Temperature	-55°C - 155°C
			Contact Resistance	Center 5.0mΩ
				Outer 1.0mΩ
			Material	Body Brass
				Contact Brass
				Insulator Teflon
N-TYPE				
MALE STRAIGHT	FEMALE STRAIGHT	MALE RIGHT ANGLE	VSWR	≤1.5
			Impedance	50Ω ±2Ω
			Working Voltage	≤1000Vrms
			Dielectric Withstanding	≤2500Vrms
			Insulation Resistance	≥5000MΩ
			Working Temperature	-65°C - 165°C
			Contact Resistance	Center 1.0mΩ
				Outer 1.0mΩ
			Material	Body Brass
				Contact Brass
				Insulator Teflon
I-PEX - MHF1				
	MALE RIGHT ANGLE		VSWR	≤1.5
			Impedance	50Ω ±2Ω
			Working Voltage	≤200Vrms
			Dielectric Withstanding	No Creep, Flashover.
			Insulation Resistance	≥500MΩ
			Working Temperature	-65°C - 165°C
			Contact Resistance	Center 20.0mΩ
				Outer 20.0mΩ
			Material	Body Phosphor Bronze
				Contact Phosphor Bronze
				Insulator PBT