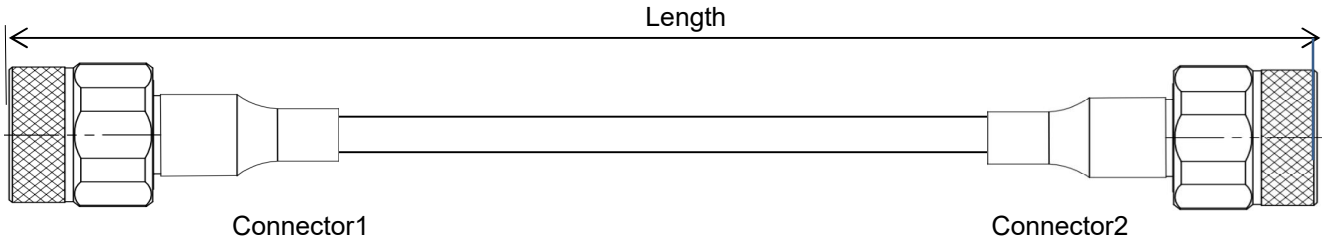
Super Flexible PUR Armored Test Cable Assembly, Using UF550

DC-18 GHz, N Male to N Male

UF550-NMNM-L-AU(L:Length)

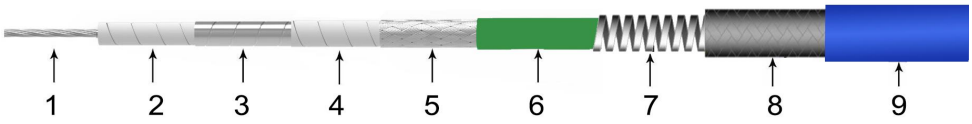


· Length can be in meter or in inch etc, e.g, UF550-NMNM-1M-AU. Standard length tolerance: ±1.5%. Custom lengths and other connector types available.
· Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	N male	**Connector 2**	N male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated brass	Center Contact	Gold plated brass
Cable Type	UF550	**Armor**	AU880

Cable Construction



No.	Construction	Size（mm）	Materials
1	Center Conductor	1.44	Stranded silver plated copper
2	Dielectric	1.60	LD PTFE wrapping
3	Outer Conductor	4.20	Silver plated copper strip wrapping
4	Interlayer	4.55	PTFE
5	Outer Shield	5.00	Silver plated copper wire braiding
6	Jacket	5.50	FEP
7	Crush Resistance Layer	6.50	Stainless steel spiral
8	Strengthening Layer	7.10	Silver plated copper braid
9	Armor Jacket	8.80	PUR

Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
VSWR Max	1.3
IL Max(1 meter assembly)	1.8dB
*Mechanical Phase Stability	<±3º@18GHz
Amplitude Stability vs Shaking	<±0.1dB to 18 GHz

Mechanical & Environmental

Min.Bending Radius Static	44mm
Min. Bending Radius Repeated	88mm
Velocity of Propagation	83%
Flex Life Min	15000 cycles
Temperature(Operation)	-50～85 ºC
Temperature(Storage)	-60～85 ºC

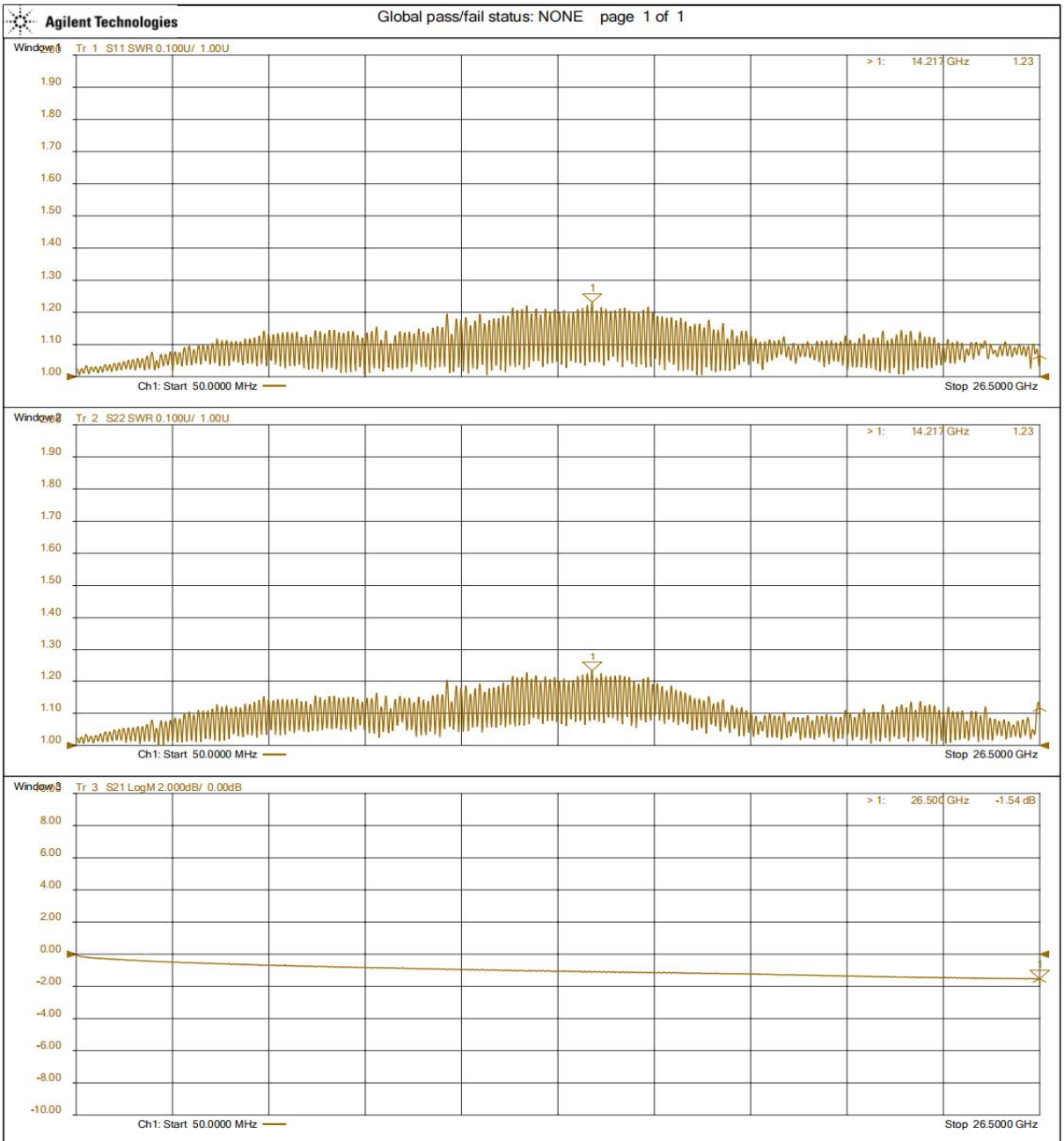
* Wrapped 360˚ around a 88mm radius mandrel.

Bulk Cable Attenuation(Typical@25℃) **& Power**(VSWR=1.0; 40℃; Sea level)

Frequency MHz	300	1000	2000	3000	6000	8000	10000	12000	14000	18000	20000	26500
dB/100 Meter	14.2	26.6	38.3	47.6	69.5	81.5	92.4	102.6	112.0	129.7	138.0	163.1
Avg.Power kW	1.300	0.697	0.484	0.389	0.267	0.227	0.200	0.181	0.165	0.143	0.134	0.114
Attenuation at any frequency＝[0.801100×SQRT(FMHz)]+[0.001233×FMHz]												

Notes:
1) The above attenuation refers to typical loss of cable only, max loss is 1.1 times of typical loss. Insertion loss per connector is estimated as 0.03dB x SQRT Freq(GHz).
2) Power handling values are calculated based on cable properties. Power handling will vary based on connector type and actual VSWR of the cable assembly.

Typical Test Data (UF550-NMNM-1M-AU)



Channel Settings

Channel	Sweep Type	Points	Start (MHz)	Stop (GHz)	IF BW (kHz)	Sweep Time (s)	Pow 1 (dBm)	Pow 2 (dBm)
1	LinFreq	1601	50.000000	26.500000	10.000000	1.000000	-15.000000	-15.000000

Trace Attributes

Window	ID	Trace	Channel	Correction	Options	Marker	Position	Response
1	1	S11	1	C 2-Port		1	14217.281 MHz	1.2313
2	1	S22	1	C 2-Port		1	14217.281 MHz	1.2341
3	1	S21	1	C 2-Port		1	26500 MHz	-1.5461 dB