



High Performance Armored RF Cable Assemblies



Features & Benefits

- Continuously interlocked 302 stainless steel armor provides exceptional corrosion and crush resistance
- Armored bend radius prevents accidental overbend of RF cable
- Fully armored and partially armored options available
- Withstands pull force up to 45 lbf
- Fits all standard connector series including SMA, 2.92 mm, 2.4 mm, 1.85 mm, ZMA, Type N and TNC

Applications

- Harsh environment conditions
- Ground vehicle communications systems
- Real-time situational awareness field transceivers
- Satellite communications field data uplink devices
- Ground based field-deployable radar systems

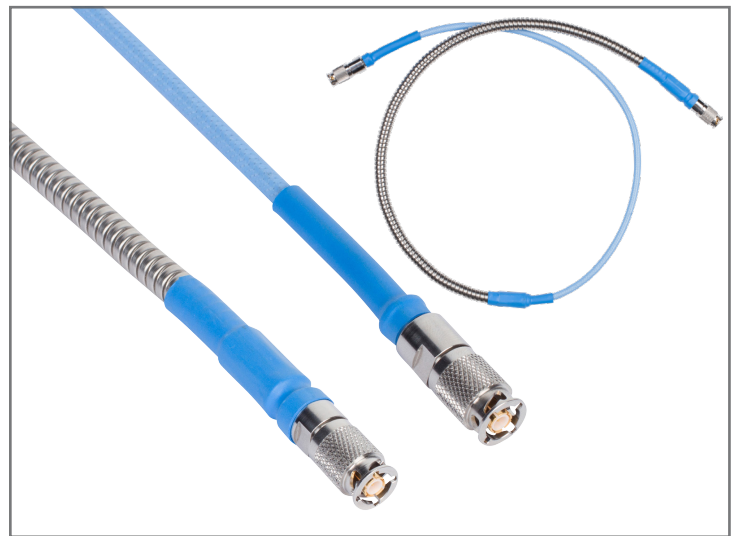
Fully Armored End-to-End

For applications requiring ruggedization along the entire length of the cable.



Partially Armored

For applications requiring flexible sections along side ruggedized sections.



Available Cable Options & Specifications

Cable Diameter	Ø.141"	Ø.210"	Ø.276"
Max. Armor Diameter	.270"	.355"	.505"
SV Cable Part Number	200-70-140	200-70-374	200-70-250
Armor Material	302 S.S.	302 S.S.	302 S.S.
Internal Bend Radius	1.5"	1.5"	2.0"
Armor Weight (lbs / 100 ft)	4.2	7.3	12.0
Cable Weight (lbs / 100 ft)	3.3	4.8	9.3
Cutoff Frequency (GHz)	34 GHz	18 GHz	18 GHz

Cable Option: 200-70-140



Inner Conductor – SPC (solid)
 Dielectric – PTFE (Extruded)
 1st Shield – SPC Strip
 2nd Shield – SPC Braid (40 AWG)
 Jacket – Extruded FEP

Cable Option: 200-70-374



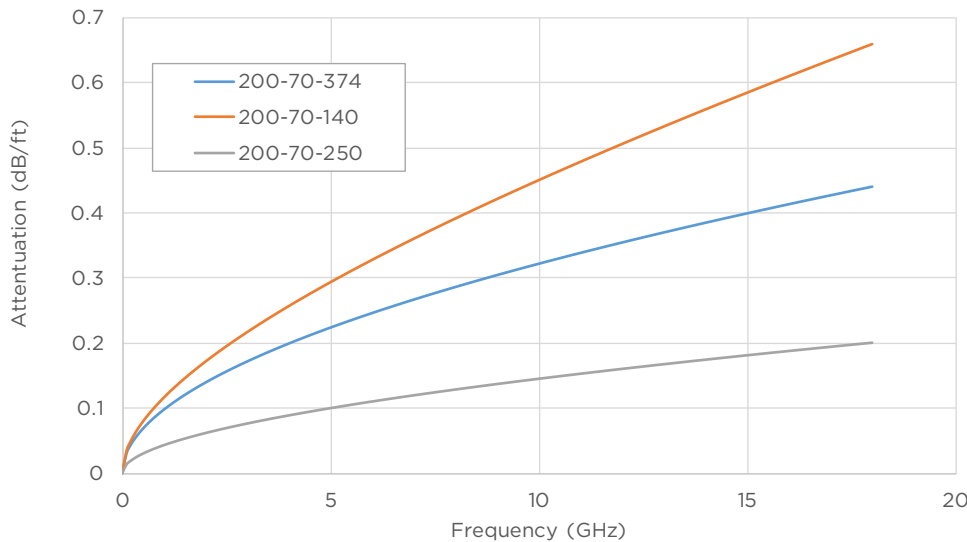
Inner Conductor – SPC (stranded)
 Dielectric – PTFE (Microporous)
 1st Shield – SPC Strip
 Interlayer – Metalized Tape
 2nd Shield – SPC Braid (40 AWG)
 Jacket – Extruded FEP

Cable Option: 200-70-250



Inner Conductor – SPC (solid)
 Dielectric – PTFE (Microporous)
 1st Shield – SPC Strip
 Interlayer – Metalized Tape
 2nd Shield – SPC Braid (40 AWG)
 Jacket – Extruded FEP

Cable Options - Attenuation vs. Frequency



* Test frequency shown is 18 GHz max as a result of connectors used. Actual cable cutoff frequency shown in above table.

Armor Testing

- Cables tested for compressive deflection using an Instron Tensile Tester with a 1 kN load cell to simulate harsh environment conditions
- The compression test clamp rate was 0.5 in/min until 1000 lbf was applied
- The armored cable (.250" I.D. version) was found to have compressed 5% max at 1100 lbf which was not significant enough to impact the electrical performance of the cable

Typical Load vs. Deflection (Strain)

