



SRC HAVERHILL

**RF & MICROWAVE  
CABLE ASSEMBLY SOLUTIONS**

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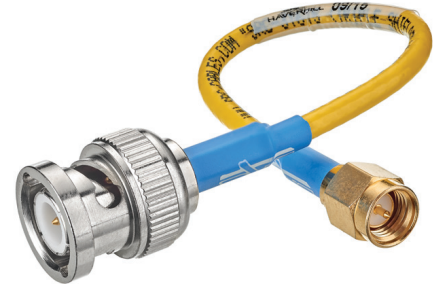
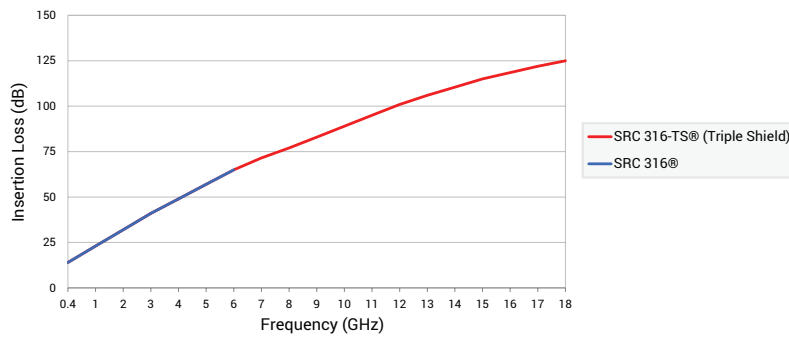
# SRC HAVERHILL CABLE ASSEMBLIES

## SRC 316® AND SRC 316-TS® TRIPLE-SHIELD



- ◆ 90 dB to 110 dB Shielding vs. 40 dB
- ◆ 20% Lower loss and twice as flexible
- ◆ Replaces Standard Mil-C-17 316, 174, 188
- ◆ Pre-treated, cross-linked dielectric
- ◆ Ideal for test cables and instrumentation

SRC 316® & SRC 316-TS® ATTENUATION IN dB/100 FT.



| ELECTRICAL DATA           | CABLE SERIES                              |                     |   |                      |
|---------------------------|---|---------------------|---|----------------------|
|                           | SRC 316                                   |                     | SRC 316-TS (TRIPLE SHIELD)                |                      |
| Impedance Ohm             | 50  |                     | 50  |                      |
| Capacitance pF/ft @ 1 GHz | 29  |                     | 29  |                      |
| Velocity of Propagation   | 71%                                       |                     | 71%                                       |                      |
| Shielding dB              | 90  |                     | 110                                       |                      |
| Max Voltage VRMS          | 1500                                      |                     | 1500                                      |                      |
| Halogen                   | Passes IEC 754                            |                     | Passes IEC 754                            |                      |
| MECHANICAL DATA           |   |                     |   |                      |
| Center Conductor          | Silver Plated Copper                      |                     | Silver Plated Copper                      |                      |
| Dimension-inches (mm)     | .020                                      | (.51)               | .020                                      | (.51)                |
| Dielectric                | Cellular X-Linked High Density Polyolefin |                     | Cellular X-Linked High Density Polyolefin |                      |
| Shield 1                  | Al Mylar Tape                             | .003 (.076)         | Al Mylar Tape                             | .003 (.076)          |
| Shield 2                  | SC  | 97% coverage        | SC  | 97% coverage         |
| Shield 3                  |   |                     | SC  | 97% coverage         |
| Jacket                    | PVC (White)                               | .099 Outer Diameter | PVC (Yellow)                              | .120 Outer Diameter. |
| Bend Radius-inches        | .25                                       |                     | .3  |                      |
| ENVIRONMENTAL DATA        |   |                     |   |                      |
| Temperature Range °C      | -40 +105                                  |                     | -40 +105                                  |                      |
| Flame Rating              | UL 1581                                   |                     | UL 1581                                   |                      |
| FREQUENCY                 | INSERTION LOSS (dB/100 FT)                |                     |   |                      |
| 400 MHz                   | 14.8                                      |                     | 14.6                                      |                      |
| 900 MHz                   | 22  |                     | 21.8                                      |                      |
| 2 GHz                     | 34.8                                      |                     | 34.6                                      |                      |
| 6 GHz                     | 64.8                                      |                     | 64.5                                      |                      |
| 12 GHz                    | na  |                     | 97.7                                      |                      |
| 18 GHz                    | na  |                     | 125.8                                     |                      |
| FREQUENCY                 | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL |                     |   |                      |
| 400 MHz                   | 60  |                     | 60  |                      |
| 900 MHz                   | 50  |                     | 50  |                      |
| 2 GHz                     | 20  |                     | 20  |                      |
| 6 GHz                     | 10  |                     | 10  |                      |
| 12 GHz                    | na  |                     | 10  |                      |
| 18 GHz                    | na  |                     | 10  |                      |

# SRC HAVERHILL CABLE ASSEMBLIES

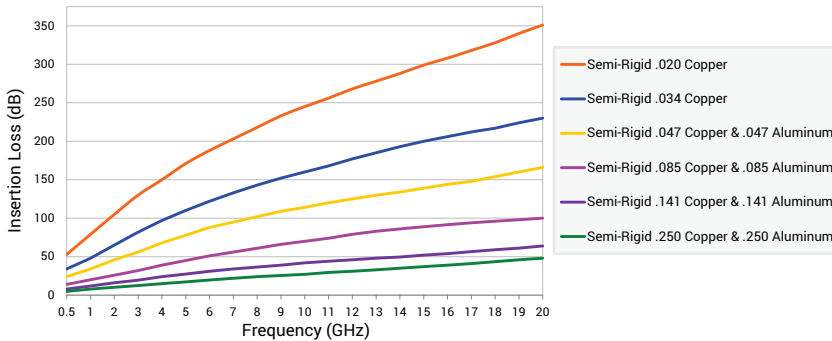
## SEMI-RIGID CABLE/CABLE ASSEMBLIES



- ◆ Excellent power handling and electrical performance
- ◆ Superior choice for tactical and shock or vibration applications
- ◆ Precision CNC cutting and machining to .002 in tolerance for phase matching
- ◆ Copper or Aluminum shield (30% less weight, similar performance)
- ◆ Factory offers various plating options for copper tubing



SEMI-RIGID ATTENUATION IN dB/100 FT.



|                                  |  | CABLE SERIES                              |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |  |
|----------------------------------|--|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|
| ELECTRICAL DATA                  |  | .020                                      | .034                            | .047                            | .085                            | .141                            | .250                            | .047                            | .085                            | .141                            |  |
| Impedance Ohm                    |  | 50  | 50                              | 50                              | 50                              | 50                              | 50                              | 50                              | 50                              | 50                              |  |
| Capacitance pF/ft @ 1 GHz        |  | 29  | 29                              | 29                              | 29                              | 29                              | 29                              | 29                              | 29                              | 29                              |  |
| Max Voltage VRMS                 |  | 750                                       | 2000                            | 2000                            | 5000                            | 5000                            | 7500                            | 2000                            | 5000                            | 5000                            |  |
| Cutoff Frequency                 |  | 270 GHz                                   | 155 GHz                         | 110 GHz                         | 61 GHz                          | 34 GHz                          | 20 GHz                          | 110 GHz                         | 61 GHz                          | 34 GHz                          |  |
| MECHANICAL DATA                  |  |   |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |  |
| Shield                           |  | Bare Copper                               | Bare Copper                     | Bare Copper                     | Bare Copper                     | Bare Copper                     | Bare Copper                     | SnPlateAl                       | SnPlateAl                       | SnPlateAl                       |  |
| Center Conductor                 |  | Silver Plated Copper Clad Steel           | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel |  |
| Dimension-inches (mm)            |  | .0044 (.112)                              | .008 (.203)                     | .011 (.288)                     | .020 (.51)                      | .026 (.91)                      | .064 (1.62)                     | .011 (.288)                     | .020 (.51)                      | .026 (.91)                      |  |
| Dielectric                       |  | PTFE .015                                 | PTFE .026                       | PTFE .037                       | PTFE .066                       | PTFE .116                       | PTFE .209                       | PTFE .037                       | PTFE .066                       | PTFE .116                       |  |
| Bend Radius-inches               |  | .05                                       | .05                             | .05                             | .1                              | .15                             | .5                              | .05                             | .1                              | .15                             |  |
| Cable Outer Diameter-inches (mm) |  | .020 (.508)                               | .034 (.864)                     | .047(1.19)                      | .085 (2.16)                     | .141 (3.58)                     | .250 (6.35)                     | .047 (1.19)                     | .085 (2.16)                     | .141 (3.58)                     |  |
| ENVIRONMENTAL DATA               |  |   |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |  |
| Temperature Range °C             |  | -55/+85                                   | -55/+100                        | -55/+100                        | -55/+125                        | -55/+125                        | -55/+125                        | -55/+100                        | -55/+125                        | -55/+125                        |  |
| FREQUENCY                        |  | INSERTION LOSS (dB/100 FT)                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |  |
| .5 GHz                           |  | 53  | 34                              | 24                              | 14                              | 8                               | 5                               | 26                              | 15                              | 8.3                             |  |
| 1 GHz                            |  | 76  | 48                              | 34                              | 20                              | 11                              | 7.5                             | 37                              | 21                              | 12.1                            |  |
| 5 GHz                            |  | 171                                       | 110                             | 79                              | 46                              | 28                              | 21                              | 85                              | 49                              | 30.1                            |  |
| 10 GHz                           |  | 245                                       | 159                             | 114                             | 68                              | 42                              | 33                              | 122                             | 72                              | 45.4                            |  |
| 20 GHz                           |  | 351                                       | 230                             | 166                             | 100                             | 64                              | 48                              | 177                             | 107                             | 70                              |  |
| FREQUENCY                        |  | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |  |
| .5 GHz                           |  | 20  | 36                              | 81                              | 232                             | 601                             | 2100                            | 85                              | 241                             | 600                             |  |
| 1 GHz                            |  | 14  | 25                              | 57                              | 162                             | 418                             | 1400                            | 60                              | 169                             | 450                             |  |
| 5 GHz                            |  | 6   | 11                              | 25                              | 70                              | 174                             | 875                             | 27                              | 73                              | 180                             |  |
| 10 GHz                           |  | 5   | 8                               | 17                              | 48                              | 118                             | 350                             | 18                              | 50                              | 120                             |  |
| 20 GHz                           |  | 3   | 5                               | 12                              | 33                              | 78                              | 200                             | 13                              | 34                              | 70                              |  |

# SRC HAVERHILL CABLE ASSEMBLIES

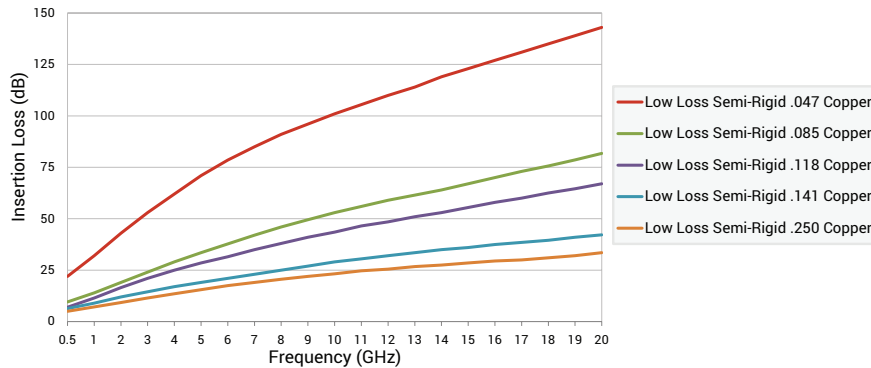
## LOW LOSS AND PHASE STABLE SEMI-RIGID CABLE/CABLE ASSEMBLIES



- ◆ Low density PTFE dielectric gives superior low-loss performance
- ◆ Higher temperature range, better power handling, and more phase stable than standard semi-rigid
- ◆ Available with high performance connectors
- ◆ Factory offers various plating options for copper tubing



LOW LOSS, PHASE STABLE SEMI-RIGID ATTENUATION IN dB/100 FT.



|                                  | CABLE SERIES         |  |                      |                      |                      |
|----------------------------------|----------------------|--|----------------------|----------------------|----------------------|
|                                  | .047                 | .085   | .118                 | .141                 | .250                 |
| <b>ELECTRICAL DATA</b>           |                      |  |                      |                      |                      |
| Impedance Ohm                    | 50                   | 50   | 50                   | 50                   | 50                   |
| Velocity of Propagation          | 83%                  | 83%  | 83%                  | 83%                  | 83%                  |
| Capacitance pF/ft @ 1 GHz        | 24.5                 | 24.5   | 24.5                 | 24.5                 | 24.5                 |
| Max Voltage VRMS                 | 2000                 | 2500   | 3000                 | 5000                 | 7500                 |
| Cutoff Frequency                 | 118 GHz              | 60 GHz   | 46 GHz               | 36 GHz               | 20 GHz               |
| <b>MECHANICAL DATA</b>           |                      |  |                      |                      |                      |
| Shield                           | Bare Copper          | Bare Copper                                      | Bare Copper          | Bare Copper          | Bare Copper          |
| Center Conductor                 | Silver Plated Copper | Silver Plated Copper                             | Silver Plated Copper | Silver Plated Copper | Silver Plated Copper |
| Dimension-inches (mm)            | .013 (.323)          | .023 (.571)                                      | .032 (.813)          | .046 (1.156)         | .074 (1.88)          |
| Dielectric                       | LD PTFE Tape .0375   | LD PTFE Tape .066                                | LD PTFE Tape .097    | LD PTFE Tape .120    | LD PTFE Tape .209    |
| Bend Radius-inches               | .125                 | .250   | .400                 | .500                 | 1.000                |
| Cable Outer Diameter-inches (mm) | .047 (1.24)          | .085 (2.18)                                      | .118 (2.30)          | .141 (3.58)          | .250 (6.35)          |
| <b>ENVIRONMENTAL DATA</b>        |                      |  |                      |                      |                      |
| Temperature Range °C             | -55/+200             | -55/+200   | -55/+200             | -55/+200             | -55/+200             |
| <b>FREQUENCY</b>                 |                      | <b>INSERTION LOSS (dB/100 FT)</b>                |                      |                      |                      |
| .5 GHz                           | 22                   | 9.57   | 7                    | 6.3                  | 5                    |
| 1 GHz                            | 31                   | 13.9   | 12                   | 9                    | 7.1                  |
| 5 GHz                            | 71                   | 34.6   | 28                   | 20.5                 | 16.2                 |
| 10 GHz                           | 100                  | 52.6   | 41                   | 29.3                 | 23.2                 |
| 20 GHz                           | 143                  | 81.8   | 67                   | 42.2                 | 33.5                 |
| <b>FREQUENCY</b>                 |                      | <b>AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL</b> |                      |                      |                      |
| .5 GHz                           | 124                  | 341  | 634                  | 900                  | 2716                 |
| 1 GHz                            | 88                   | 242  | 446                  | 622                  | 1902                 |
| 5 GHz                            | 39                   | 108  | 200                  | 269                  | 818                  |
| 10 GHz                           | 27                   | 77   | 144                  | 186                  | 562                  |
| 20 GHz                           | 19                   | 58   | 96                   | 126                  | 348                  |



### CABLE ASSEMBLIES ATTRIBUTES

- ◆ Cable assemblies are 100% tested for Insertion Loss and VSWR
- ◆ Designed for Low structural VSWR, which reduces variations in attenuation and phase compared to lower VoP cable assemblies
- ◆ Our global engineering team is available to assist in solving your technical requirements
- ◆ Certified soldered cable assemblies per IPC/WHMA-A-620
- ◆ Connector interfaces meet MIL-STD-348
- ◆ Connectors meet the environmental specifications of MIL-PRF-39012
- ◆ Cable and Connector Retention: Meets MIL-T-81490 and MIL-C-87104
- ◆ Torque Resistance: Meets MIL-T-81490 and MIL-C-87104
- ◆ Flexure Life: Meets MIL-C-87104
- ◆ Standard and ruggedized cable assemblies available
- ◆ Connector Mating Durability: 500 cycles minimum per MIL-PRF-39012
- ◆ Phase matched cable assemblies available

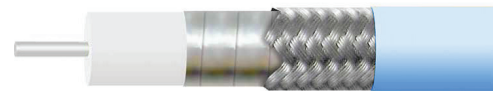
### CONNECTOR MATERIALS

- ◆ Outer Bodies: Passivated Stainless Steel
- ◆ Inner Bodies: Passivated Stainless Steel
- ◆ Contacts: Gold Plated
- ◆ Insulators: PTFE and PLTFE

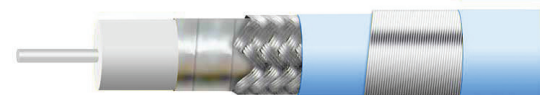
### AVAILABLE CONNECTOR INTERFACES

- ◆ 2.4, 2.9, SMA, TNC, and Type N
- ◆ Connectors are available with or without lock wire holes

### STANDARD CABLE CONSTRUCTION



### RUGGEDIZED CABLE CONSTRUCTION



# SRC HAVERHILL CABLE ASSEMBLIES

## SRC-140/210 CABLE SPECIFICATIONS



| ELECTRICAL DATA                               | CABLE SERIES                      |  |
|---|-----------------------------------|--|
|   | SRC-140                           | SRC-210 (Ruggedized)   |
| Max Frequency (GHz)                           | 50                                | 50   |
| Impedance                                     | 50 Ohms                           | 50 Ohms  |
| Velocity of Propagation                       | 83% Nominal                       | 83% Nominal  |
| Time Delay (ns/ft)                            | 1.22                              | 1.22   |
| Capacitance (pF/ft)                           | 24                                | 24   |
| VSWR (cable only)                             | <1.15:1                           | <1.15:1  |
| Attenuation                                   | See Information Below             | See Information Below  |
| Average Power                                 | See Information Below             | See Information Below  |
| RF Shielding (dB) to 18 GHz                   | >90                               | >90  |
| MECHANICAL DATA                               |                                   |  |
| Cable Outer Diameter-inches                   | .140                              | .210   |
| Jacket Color                                  | Blue                              | Blue   |
| Jacket Material                               | FEP                               | FEP  |
| Dielectric                                    | EPTFE                             | EPTFE  |
| Cable and Connector Retention                 | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Torque Resistance                             | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Internally Ruggedized                         | No                                | Yes  |
| Crush Resistance                              | Meets MIL-T-81490 and MIL-C-87104 | Exceeds MIL-T-81490 and MIL-C-87104<br>>150 Pounds per Linear Inch |
| Flexure Life                                  | Meets MIL-C-87104                 | Meets MIL-C-87104  |
| Bend Radius-inches                            | .5                                | .5   |
| Weight (lbs per 100 ft)                       | 1.9                               | 4.6  |
| ENVIRONMENTAL DATA                            |                                   |  |
| Temperature Range °C                          | -65 to +165                       | -65 to +165  |
| Custom/Special Operating Temperature Range °C | -65 to +200                       | -65 to +200  |
| Flame Rating                                  | UL94 V-0                          | UL94 V-0   |
| FREQUENCY                                     | INSERTION LOSS (dB/foot)          | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL                          |
| .04 GHz                                       | .075                              | 550  |
| 1 GHz   | .120                              | 450  |
| 2 GHz   | .170                              | 300  |
| 4 GHz   | .240                              | 225  |
| 8 GHz   | .350                              | 150  |
| 12 GHz  | .440                              | 120  |
| 18 GHz  | .560                              | 100  |
| 26 GHz  | .690                              | 80   |
| 32 GHz  | .780                              | 71   |
| 40 GHz  | .890                              | 60   |
| 50 GHz  | 1.020                             | 50   |

# SRC HAVERHILL CABLE ASSEMBLIES

## SRC-150/215 CABLE SPECIFICATIONS



| ELECTRICAL DATA                               | CABLE SERIES                      |  |
|---|-----------------------------------|--|
|   | SRC-150                           | SRC-215 (Ruggedized)   |
| Max Frequency (GHz)                           | 40                                | 40   |
| Impedance                                     | 50 Ohms                           | 50 Ohms  |
| Velocity of Propagation                       | 83% Nominal                       | 83% Nominal  |
| Time Delay (ns/ft)                            | 1.22                              | 1.22   |
| Capacitance (pF/ft)                           | 24                                | 24   |
| VSWR (cable only)                             | <1.15:1                           | <1.15:1  |
| Attenuation                                   | See Information Below             | See Information Below  |
| Average Power                                 | See Information Below             | See Information Below  |
| RF Shielding (dB) to 18 GHz                   | >90                               | >90  |
| MECHANICAL DATA                               |                                   |  |
| Cable Outer Diameter-inches                   | .150                              | .210   |
| Jacket Color                                  | Blue                              | Blue   |
| Jacket Material                               | FEP                               | FEP  |
| Dielectric                                    | EPTFE                             | EPTFE  |
| Cable and Connector Retention                 | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Torque Resistance                             | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Internally Ruggedized                         | No                                | Yes  |
| Crush Resistance                              | Meets MIL-T-81490 and MIL-C-87104 | Exceeds MIL-T-81490 and MIL-C-87104<br>>150 Pounds per Linear Inch |
| Flexure Life                                  | Meets MIL-C-87104                 | Meets MIL-C-87104  |
| Bend Radius-inches                            | .5                                | .5   |
| Weight (lbs per 100 ft)                       | 2.3                               | 4.9  |
| ENVIRONMENTAL DATA                            |                                   |  |
| Temperature Range °C                          | -65 to +165                       | -65 to +165  |
| Custom/Special Operating Temperature Range °C | -65 to +200                       | -65 to +200  |
| Flame Rating                                  | UL94 V-0                          | UL94 V-0   |
| FREQUENCY                                     | INSERTION LOSS (dB/foot)          | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL                          |
| .04 GHz                                       | .070                              | 600  |
| 1 GHz   | .110                              | 500  |
| 2 GHz   | .160                              | 370  |
| 4 GHz   | .220                              | 260  |
| 6 GHz   | .270                              | 210  |
| 8 GHz   | .320                              | 180  |
| 12 GHz  | .390                              | 150  |
| 18 GHz  | .490                              | 120  |
| 26 GHz  | .590                              | 100  |
| 32 GHz  | .660                              | 95   |
| 40 GHz  | .750                              | 75   |



# SRC HAVERHILL CABLE ASSEMBLIES

## SRC-190/260 CABLE SPECIFICATIONS



| ELECTRICAL DATA                               | CABLE SERIES                      |  |
|---|-----------------------------------|--|
|   | SRC-190                           | SRC-260 (Ruggedized)   |
| Max Frequency (GHz)                           | 26.5                              | 26.5   |
| Impedance                                     | 50 Ohms                           | 50 Ohms  |
| Velocity of Propagation                       | 83% Nominal                       | 83% Nominal  |
| Time Delay (ns/ft)                            | 1.22                              | 1.22   |
| Capacitance (pF/ft)                           | 24                                | 24   |
| VSWR (cable only)                             | <1.15:1                           | <1.15:1  |
| Attenuation                                   | See Information Below             | See Information Below  |
| Average Power                                 | See Information Below             | See Information Below  |
| RF Shielding (dB) to 18 GHz                   | >90                               | >90  |
| MECHANICAL DATA                               |                                   |  |
| Cable Outer Diameter-inches                   | .190                              | .260   |
| Jacket Color                                  | Blue                              | Blue   |
| Jacket Material                               | FEP                               | FEP  |
| Dielectric                                    | EPTFE                             | EPTFE  |
| Cable and Connector Retention                 | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Torque Resistance                             | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Internally Ruggedized                         | No                                | Yes  |
| Crush Resistance                              | Meets MIL-T-81490 and MIL-C-87104 | Exceeds MIL-T-81490 and MIL-C-87104<br>>150 Pounds per Linear Inch |
| Flexure Life                                  | Meets MIL-C-87104                 | Meets MIL-C-87104  |
| Bend Radius-inches                            | .500                              | .500   |
| Weight (lbs per 100 ft)                       | 3.7                               | 9.3  |
| ENVIRONMENTAL DATA                            |                                   |  |
| Temperature Range °C                          | -65 to +165                       | -65 to +165  |
| Custom/Special Operating Temperature Range °C | -65 to +200                       | -65 to +200  |
| Flame Rating                                  | UL94 V-0                          | UL94 V-0   |
| FREQUENCY                                     | INSERTION LOSS (dB/foot)          | AVERAGE POWER (Watts) @ 20° C<br>@ SEA LEVEL                       |
| .04 GHz                                       | .05                               | 1000   |
| 1 GHz   | .08                               | 800  |
| 2 GHz   | .12                               | 550  |
| 4 GHz   | .16                               | 400  |
| 8 GHz   | .23                               | 290  |
| 10 GHz  | .26                               | 250  |
| 12 GHz  | .29                               | 220  |
| 14 GHz  | .32                               | 210  |
| 16 GHz  | .34                               | 200  |
| 18 GHz  | .36                               | 195  |
| 26.5 GHz                                      | .44                               | 175  |

# SRC HAVERHILL CABLE ASSEMBLIES

## SRC-224/290 CABLE SPECIFICATIONS



| ELECTRICAL DATA                               | CABLE SERIES                      |  |
|---|-----------------------------------|--|
|   | SRC-224                           | SRC-290 (Ruggedized)   |
| Max Frequency (GHz)                           | 18                                | 18   |
| Impedance                                     | 50 Ohms                           | 50 Ohms  |
| Velocity of Propagation                       | 83% Nominal                       | 83% Nominal  |
| Time Delay (ns/ft)                            | 1.22                              | 1.22   |
| Capacitance (pF/ft)                           | 24                                | 24   |
| VSWR (cable only)                             | <1.15:1                           | <1.15:1  |
| Attenuation                                   | See Information Below             | See Information Below  |
| Average Power                                 | See Information Below             | See Information Below  |
| RF Shielding (dB) to 18 GHz                   | >90                               | >90  |
| MECHANICAL DATA                               |                                   |  |
| Cable Outer Diameter-inches                   | .224                              | .290   |
| Jacket Color                                  | Blue                              | Blue   |
| Jacket Material                               | FEP                               | FEP  |
| Dielectric                                    | EPTFE                             | EPTFE  |
| Cable and Connector Retention                 | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Torque Resistance                             | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Internally Ruggedized                         | No                                | Yes  |
| Crush Resistance                              | Meets MIL-T-81490 and MIL-C-87104 | Exceeds MIL-T-81490 and MIL-C-87104<br>>150 Pounds per Linear Inch |
| Flexure Life                                  | Meets MIL-C-87104                 | Meets MIL-C-87104  |
| Bend Radius-inches                            | .750                              | .750   |
| Weight (lbs per 100 ft)                       | 4.8                               | 10.1   |
| ENVIRONMENTAL DATA                            |                                   |  |
| Temperature Range °C                          | -65 to +165                       | -65 to +165  |
| Custom/Special Operating Temperature Range °C | -65 to +200                       | -65 to +200  |
| Flame Rating                                  | UL94 V-0                          | UL94 V-0   |
| FREQUENCY                                     | INSERTION LOSS (dB/foot)          | AVERAGE POWER (Watts) @ 20° C<br>@ SEA LEVEL                       |
| .04 GHz                                       | .038                              | 1300   |
| 1 GHz   | .061                              | 1100   |
| 2 GHz   | .087                              | 800  |
| 4 GHz   | .125                              | 520  |
| 6 GHz   | .155                              | 450  |
| 8 GHz   | .180                              | 380  |
| 10 GHz  | .203                              | 350  |
| 12 GHz  | .224                              | 310  |
| 14 GHz  | .244                              | 300  |
| 16 GHz  | .263                              | 280  |
| 18 GHz  | .280                              | 270  |

# SRC HAVERHILL CABLE ASSEMBLIES

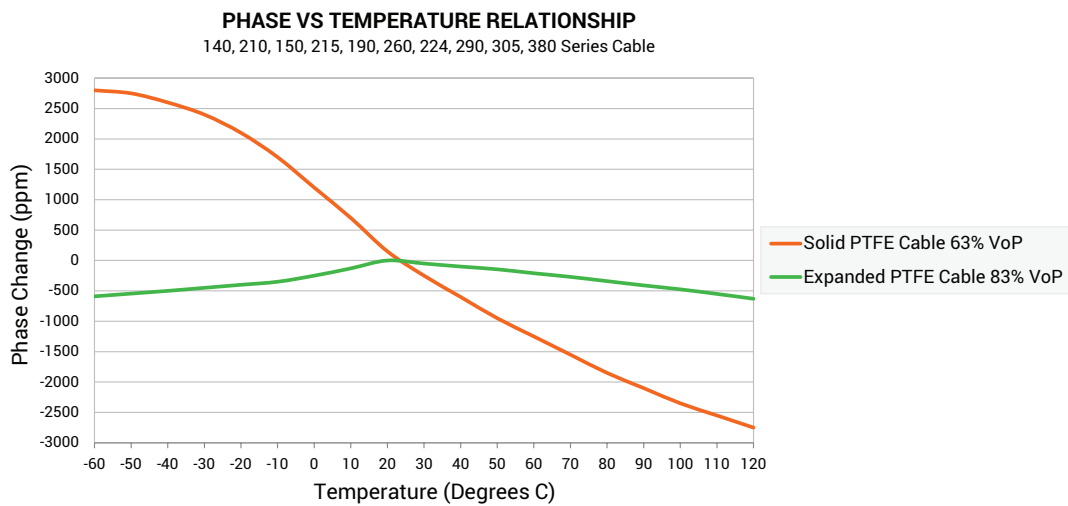
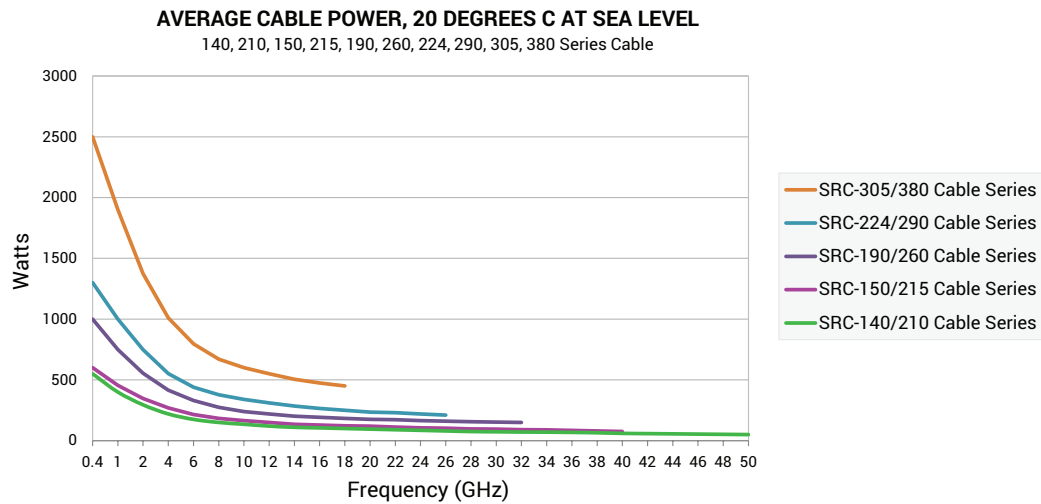
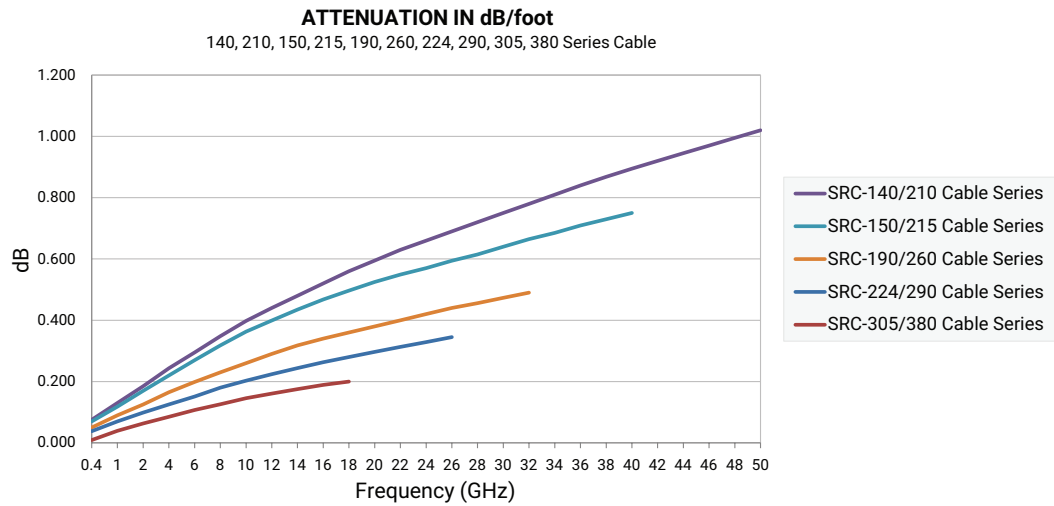
## SRC-305/380 CABLE SPECIFICATIONS



| ELECTRICAL DATA                               | CABLE SERIES                      |  |
|---|-----------------------------------|--|
|   | SRC-305                           | SRC-380 (Ruggedized)   |
| Max Frequency (GHz)                           | 18                                | 18   |
| Impedance                                     | 50 Ohms                           | 50 Ohms  |
| Velocity of Propagation                       | 83% Nominal                       | 83% Nominal  |
| Time Delay (ns/ft)                            | 1.22                              | 1.22   |
| Capacitance (pF/ft)                           | 24                                | 24   |
| VSWR (cable only)                             | <1.15:1                           | <1.15:1  |
| Attenuation                                   | See Information Below             | See Information Below  |
| Average Power                                 | See Information Below             | See Information Below  |
| RF Shielding (dB) to 18 GHz                   | >90                               | >90  |
| MECHANICAL DATA                               |                                   |  |
| Cable Outer Diameter-inches                   | .305                              | .380   |
| Jacket Color                                  | Blue                              | Blue   |
| Jacket Material                               | FEP                               | FEP  |
| Dielectric                                    | EPTFE                             | EPTFE  |
| Cable and Connector Retention                 | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Torque Resistance                             | Meets MIL-T-81490 and MIL-C-87104 | Meets MIL-T-81490 and MIL-C-87104                                  |
| Internally Ruggedized                         | No                                | Yes  |
| Crush Resistance                              | Meets MIL-T-81490 and MIL-C-87104 | Exceeds MIL-T-81490 and MIL-C-87104<br>>150 Pounds per Linear Inch |
| Flexure Life                                  | Meets MIL-C-87104                 | Meets MIL-C-87104  |
| Bend Radius-inches                            | 1.0                               | 1.0  |
| Weight (lbs per 100 ft)                       | 8.2                               | 16.5   |
| ENVIRONMENTAL DATA                            |                                   |  |
| Temperature Range °C                          | -65 to +165                       | -65 to +165  |
| Custom/Special Operating Temperature Range °C | -65 to +200                       | -65 to +200  |
| Flame Rating                                  | UL94 V-0                          | UL94 V-0   |
| FREQUENCY                                     | INSERTION LOSS (dB/foot)          | AVERAGE POWER (Watts) @ 20° C<br>@ SEA LEVEL                       |
| .04 GHz                                       | .009                              | 2500   |
| 1 GHz   | .044                              | 1900   |
| 2 GHz   | .063                              | 1350   |
| 4 GHz   | .090                              | 900  |
| 6 GHz   | .110                              | 750  |
| 8 GHz   | .130                              | 650  |
| 10 GHz  | .146                              | 600  |
| 12 GHz  | .161                              | 580  |
| 14 GHz  | .175                              | 550  |
| 16 GHz  | .188                              | 525  |
| 18 GHz  | .200                              | 450  |

# SRC HAVERHILL CABLE ASSEMBLIES

## VORTEX ATTENUATION, AVERAGE POWER, AND PHASE VS. TEMPERATURE



# SRC HAVERHILL CABLE ASSEMBLIES

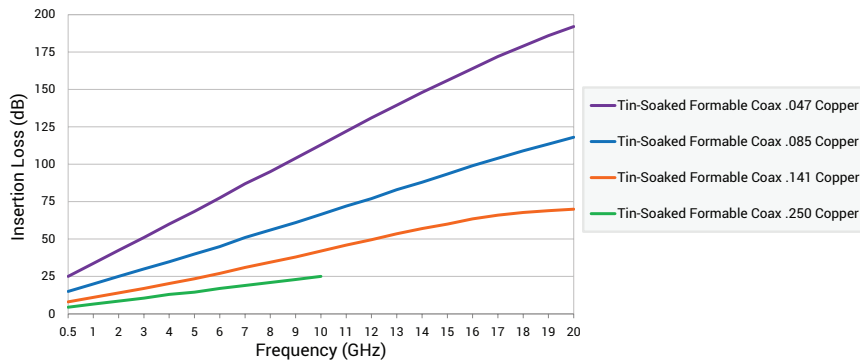
## TIN-SOAKED FORMABLE COAX CABLE ASSEMBLIES



- ◆ Excellent electrical performance - better power handling
- ◆ Durable, pre-treated PTFE dielectric and phase stable characteristics
- ◆ Hand formable is ideal for prototypes or as an alternative to semi-rigid
- ◆ Wide selection of connectors suitable for most applications



COMFORMABLE COAX ATTENUATION IN dB/100 FT.

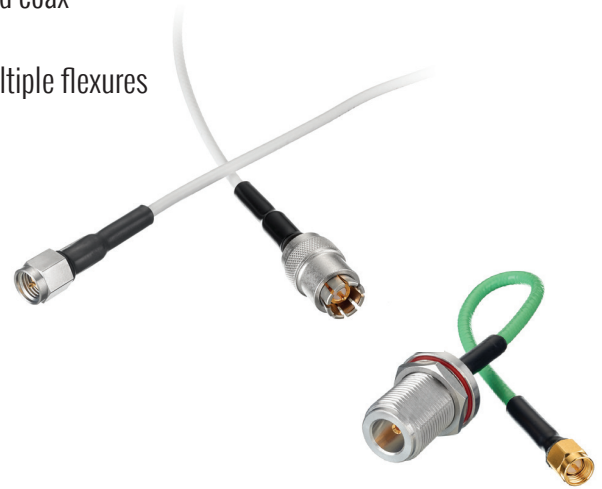


|                                  | CABLE SERIES         |  |                      |                      |
|----------------------------------|----------------------|--|----------------------|----------------------|
|                                  | .047                 | .085   | .141                 | .250                 |
| <b>ELECTRICAL DATA</b>           |                      |  |                      |                      |
| Impedance Ohm                    | 50                   | 50   | 50                   | 50                   |
| Capacitance pF/ft @ 1 GHz        | 30                   | 29.5   | 29.3                 | 29.6                 |
| Velocity of Propagation          | 70%                  | 70%  | 70%                  | 70%                  |
| Max Voltage VRMS                 | 1000                 | 1500   | 1900                 | 5000                 |
| Frequency Range                  | DC to 20 GHz         | DC to 20 GHz                                     | DC to 20 GHz         | DC to 18 GHz         |
| <b>MECHANICAL DATA</b>           |                      |  |                      |                      |
| Center Conductor                 | Silver Plated Copper | Silver Plated Copper                             | Silver Plated Copper | Silver Plated Copper |
| Dimension-inches (mm)            | .007 (.18)           | .020 (.51)                                       | .036 (.91)           | .065 (1.65)          |
| Dielectric                       | PTFE .033            | PTFE .066  | PTFE .116            | PTFE .209            |
| Jacket                           | Cu/Sn Composite      | Cu/Sn Composite                                  | Cu/Sn Composite      | Cu/Sn Composite      |
| Bend Radius-inches               | .125                 | .125   | .250                 | .375                 |
| Cable Outer Diameter-inches (mm) | .047 (1.19)          | .085 (2.16)                                      | .141 (3.58)          | .250 (6.35)          |
| <b>ENVIRONMENTAL DATA</b>        |                      |  |                      |                      |
| Temperature Range °C             | -65 +150             | -65 +150   | -65 +150             | -65 +150             |
| <b>FREQUENCY</b>                 |                      | <b>INSERTION LOSS (dB/100 FT)</b>                |                      |                      |
| .5 GHz                           | 25                   | 15   | 8                    | 4.4                  |
| 1 GHz                            | 36                   | 20.8   | 12                   | 6.7                  |
| 5 GHz                            | 128                  | 74   | 45                   | 27                   |
| 10 GHz                           | 162                  | 95   | 65                   | 36                   |
| 20 GHz                           | 192                  | 118  | 70                   | NA                   |
| <b>FREQUENCY</b>                 |                      | <b>AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL</b> |                      |                      |
| .5 GHz                           | 45                   | 180  | 600                  | 1900                 |
| 1 GHz                            | 32.5                 | 130  | 450                  | 1400                 |
| 5 GHz                            | 13                   | 35   | 120                  | 350                  |
| 10 GHz                           | 11                   | 26   | 88                   | 200                  |
| 20 GHz                           | 10.5                 | 20   | 70                   | NA                   |

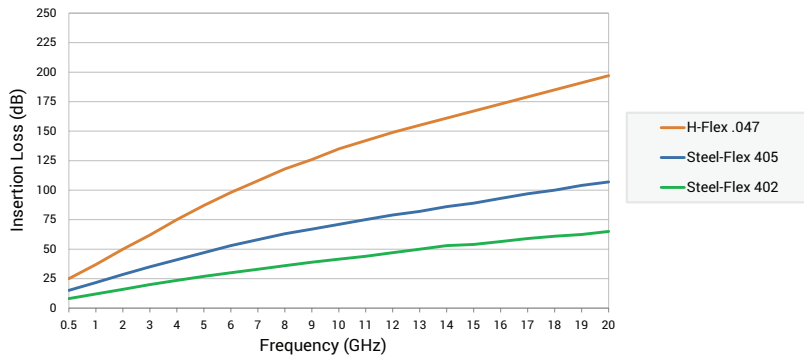
# H-FLEX AND STEELFLEX FLEXIBLE ALTERNATIVE FOR RG405/RG402



- ◆ Flexible alternative for 047 (HF-047), 085 (405) and 141 (402) semi-rigid coax
- ◆ Low cost with good electrical performance 110 dB Shielding
- ◆ .25 in (HF-047), .5 in (405) and .8 in (402) bend radius, stable after multiple flexures
- ◆ Custom, armorized metal boots & PVC shrink for durable solder joints



H-FLEX & STEEL-FLEX ATTENUATION IN dB/100 FT.



|                              |  | CABLE SERIES                    |   |                                 |
|------------------------------|--|---------------------------------|---|---------------------------------|
| ELECTRICAL DATA              |  | HF 047                          | 405                                       | 402                             |
| Impedance Ohm                |  | 50                              | 50  | 50                              |
| Capacitance pF/ft @ 1 GHz    |  | 20.4                            | 29.4                                      | 29.4                            |
| Max Voltage VRMS             |  | 500                             | 2,000                                     | 5,000                           |
| Frequency Range              |  | 40 GHz                          | .05 to 63 GHz                             | .05 to 34 GHz                   |
| Shielding                    |  | >110                            | >110                                      | >110                            |
| Max Structural VSWR @ 18 GHz |  | 1.20:1                          | 1.20:1                                    | 1.20:1                          |
| MECHANICAL DATA              |  |                                 |   |                                 |
| Center Conductor             |  | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel           | Silver Plated Copper Clad Steel |
| Dimension-inches (mm)        |  | .0013                           | .020 (.51)                                | .037 (.91)                      |
| Dielectric                   |  | PTFE .037                       | PTFE .064                                 | PTFE .117                       |
| Jacket                       |  | FEP .067                        | FEP .104                                  | FEP .163                        |
| Bend Radius-inches           |  | .4                              | .5  | .8                              |
| ENVIRONMENTAL DATA           |  |                                 |   |                                 |
| Temperature Range °C         |  | -55 +125                        | -55 +200                                  | -55 +200                        |
| FREQUENCY                    |  |                                 | INSERTION LOSS (dB/100 FT)                |                                 |
| 1 GHz                        |  | 45                              | 19.2                                      | 11.2                            |
| 5 GHz                        |  | 90                              | 45.7                                      | 27                              |
| 10 GHz                       |  | 138                             | 67.5                                      | 41                              |
| 18 GHz                       |  | 182                             | 95.1                                      | 58                              |
| 40 GHz                       |  | 222                             | 154.3                                     | 67                              |
| 60 GHz                       |  | 328                             | 191                                       | na                              |
| FREQUENCY                    |  |                                 | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL |                                 |
| 1 GHz                        |  | 43                              | 130                                       | 620                             |
| 5 GHz                        |  | 19                              | 50  | 220                             |
| 10 GHz                       |  | 12                              | 40  | 150                             |
| 18 GHz                       |  | 8                               | 20  | 120                             |
| 40 GHz                       |  | 4                               | 10  | 28                              |
| 60 GHz                       |  | 2                               | 10  | na                              |

# SRC HAVERHILL CABLE ASSEMBLIES

## TIMES MICROWAVE LMR™ LOW-LOSS COAX FOR WIRELESS APPLICATIONS

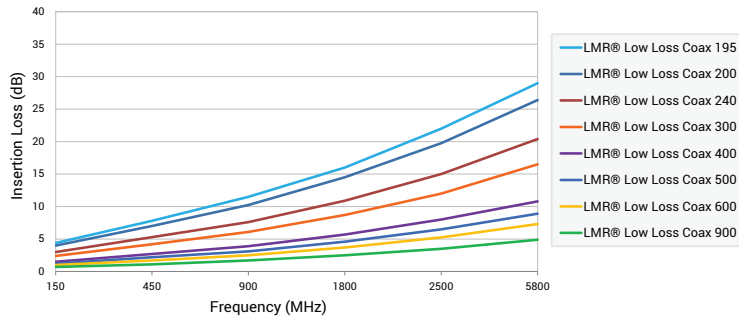


### LMR Jacket Options

- ◆ “d” Foil/braid w/waterproofing compound around the foil/braid
- ◆ “f” Non-halogen, low smoke, “CMP/MPP” and CSA ‘FT4’ rated
- ◆ “r” Fire retardant, PVC, less expensive alternative to ‘f’
- ◆ “p” PVC jacket, more flexible than PE jacket (also available in white)



LMR® LOW LOSS COAX ATTENUATION IN dB/100 FT.



### CABLE SERIES

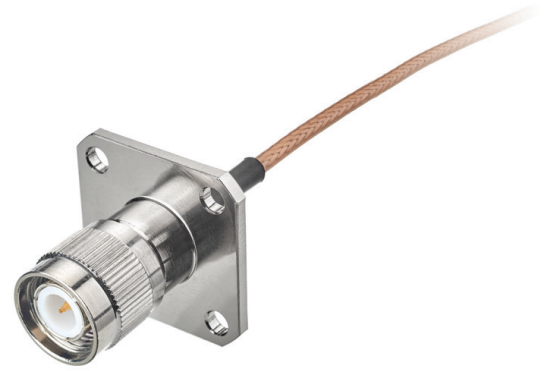
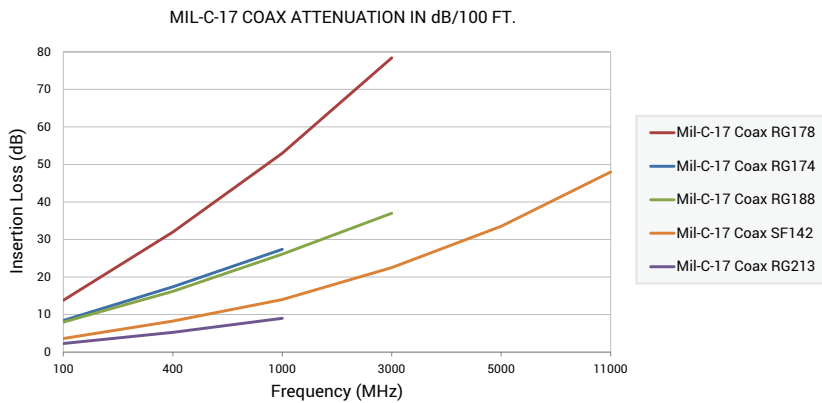
| ELECTRICAL DATA                  | 195                                       | 200           | 240           | 300           | 400                       | 500                       | 600                       | 900              |
|----------------------------------|---|---------------|---------------|---------------|---------------------------|---------------------------|---------------------------|------------------|
| Impedance Ohm                    | 50  | 50            | 50            | 50            | 50                        | 50                        | 50                        | 50               |
| Capacitance pF/ft @ 1 GHz        | 24.3                                      | 24.5          | 24.2          | 24.1          | 23.9                      | 23.6                      | 23.4                      | 23.4             |
| Velocity of Propagation          | 80%                                       | 83%           | 84%           | 85%           | 85%                       | 86%                       | 87%                       | 87%              |
| Max Voltage VRMS                 | 1000                                      | 1000          | 1500          | 2000          | 2500                      | 3000                      | 4000                      | 5000             |
| Shielding (dB)                   | >90                                       | >90           | >90           | >90           | >90                       | >90                       | >90                       | >90              |
| Cutoff Frequency (GHz)           | 41  | 39            | 31            | 24.5          | 16.2                      | 12.6                      | 10.3                      | 6.9              |
| MECHANICAL DATA                  |   |               |               |               |                           |                           |                           |                  |
| Center Conductor                 | Bare Copper                               | Bare Copper   | Bare Copper   | Bare Copper   | Bare Copper Clad Aluminum | Bare Copper Clad Aluminum | Bare Copper Clad Aluminum | Bare Copper Tube |
| Dimension-inches (mm)            | .037 (.94)                                | .044 (1.12)   | .056 (1.42)   | .070 (1.78)   | .108 (2.74)               | .142 (3.61)               | .176 (4.47)               | .262 (6.65)      |
| Dielectric                       | Foam PE                                   | Foam PE       | Foam PE       | Foam PE       | Foam PE                   | Foam PE                   | Foam PE                   | Foam PE          |
| Outer Conductor                  | Aluminum Tape                             | Aluminum Tape | Aluminum Tape | Aluminum Tape | Aluminum Tape             | Aluminum Tape             | Aluminum Tape             | Aluminum Tape    |
| Braid                            | Tinned Cu                                 | Tinned Cu     | Tinned Cu     | Tinned Cu     | Tinned Cu                 | Tinned Cu                 | Tinned Cu                 | Tinned Cu        |
| Jacket                           | PE (d,f,r,p)                              | PE (d,f,r,p)  | PE (d,f,r,p)  | PE (d,f,r,p)  | PE (d,f,r,p)              | PE (d,f)                  | PE (d,f)                  | PE (d,f)         |
| Bend Radius-inches (mm)          | .5 (12.7)                                 | .5 (12.7)     | .75 (19.1)    | .88 (22.2)    | 1.0 (25.4)                | 1.25 (31.8)               | 1.50 (38.1)               | 3.00 (76.2)      |
| Repeated Bend Radius-inches (mm) | 2.0 (50.8)                                | 2.0 (50.8)    | 2.5 (63.5)    | 3.0 (76.2)    | 4.0 (101.6)               | 5.0 (127.0)               | 6.0 (152.4)               | 9.0 (228.6)      |
| Cable Outer Diameter-inches (mm) | .195 (4.95)                               | .195 (4.95)   | .240 (6.10)   | .300 (7.62)   | .405 (10.29)              | .500 (12.7)               | .590 (14.99)              | .870 (22.10)     |
| ENVIRONMENTAL DATA               |   |               |               |               |                           |                           |                           |                  |
| Temperature Range °C             | -40 +85                                   | -40 +85       | -40 +85       | -40 +85       | -40 +85                   | -40 +85                   | -40 +85                   | -40 +85          |
| FREQUENCY                        | INSERTION LOSS (dB/100 FT)                |               |               |               |                           |                           |                           |                  |
| 150 MHz                          | 4.4                                       | 4             | 3             | 2.4           | 1.5                       | 1.2                       | 1                         | 0.7              |
| 450 MHz                          | 7.8                                       | 7             | 5.3           | 4.2           | 2.7                       | 2.2                       | 1.7                       | 1.2              |
| 900 MHz                          | 11.1                                      | 9.9           | 7.6           | 6.1           | 3.9                       | 3.1                       | 2.5                       | 1.7              |
| 1800 MHz                         | 16  | 14.2          | 10.9          | 8.7           | 5.7                       | 4.6                       | 3.7                       | 2.5              |
| 2500 MHz                         | 19  | 16.9          | 12.9          | 10.4          | 6.8                       | 5.5                       | 4.4                       | 3                |
| 5800 MHz                         | 29.9                                      | 26.4          | 20.4          | 16.5          | 10.8                      | 8.9                       | 7.3                       | 4.9              |
| FREQUENCY                        | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL |               |               |               |                           |                           |                           |                  |
| 150 MHz                          | .39                                       | .45           | .60           | .92           | 1.5                       | 1.93                      | 2.4                       | 3.89             |
| 450 MHz                          | .22                                       | .26           | .38           | .52           | .83                       | 1.09                      | 1.35                      | 2.19             |
| 900 MHz                          | .15                                       | .18           | .26           | .36           | .58                       | .75                       | .93                       | 1.51             |
| 1800 MHz                         | .22                                       | .13           | .18           | .25           | .40                       | .52                       | .63                       | 1.03             |
| 2500 MHz                         | .09                                       | .11           | .15           | .21           | .33                       | .42                       | .52                       | .86              |
| 5800 MHz                         | .06                                       | .07           | .10           | .13           | .21                       | .26                       | .32                       | .52              |

# SRC HAVERHILL CABLE ASSEMBLIES

## MIL-C-17 COAX CABLE ASSEMBLIES



- ◆ Quick turnaround
- ◆ Meet all MIL-C-17 requirements
- ◆ Factory offers all solder and crimp connectors



### CABLE SERIES

| ELECTRICAL DATA           | SF142                                     | RG174             | RG178                           | RG188                           | RG213        |
|---------------------------|---|-------------------|---------------------------------|---------------------------------|--------------|
| Impedance Ohm             | 50  | 50                | 50                              | 50                              | 50           |
| Capacitance pF/ft @ 1 GHz | 29.4                                      | 30.8              | 29.4                            | 29.4                            | 30.8         |
| Velocity of Propagation   | 69.5%                                     | 66%               | 69.5%                           | 69.5%                           | 66%          |
| Shielding (dB)            | 90  | 40                | 40                              | 40                              | 60           |
| Max Voltage VRMS          | 1,900                                     | 1,500             | 750                             | 1,200                           | 5,000        |
| Power (Max Freq) Watts    | 52  | 26                | 110                             | 220                             | 320          |
| Cutoff Frequency (MHz)    | 34,000                                    | 1000              | 3000                            | 3000                            | 1000         |
| MECHANICAL DATA           |   |                   |                                 |                                 |              |
| Center Conductor          | Silver Plated Copper Clad Steel           | Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Bare Copper  |
| Dimension-inches (mm)     | .037 (.94)                                | .0189 (.48)       | .012 (.30)                      | .0201 (.50)                     | .0888 (2.26) |
| Dielectric                | PTFE .116                                 | PE .060           | PTFE .033                       | PTFE .06                        | PE .285      |
| Jacket                    | FEP .195                                  | PVC-IIA .110      | FEP .071                        | PTFE .105                       | PVC-IIA .405 |
| Bend Radius-inches        | 1   | 0.5               | 0.4                             | 0.5                             | 2            |
| ENVIRONMENTAL DATA        |   |                   |                                 |                                 |              |
| Temperature Range °C      | -55 +200                                  | -40 +85           | -40 +150                        | -55 +250                        | -40 +85      |
| FREQUENCY                 | INSERTION LOSS (dB/100 FT)                |                   |                                 |                                 |              |
| 100 MHz                   | 3.6                                       | 8.4               | 13.8                            | 8                               | 2.3          |
| 400 MHz                   | 7.4                                       | 17                | 27.8                            | 16.2                            | 4.8          |
| 1000 MHz                  | 12  | 27.4              | 44.4                            | 26.1                            | 9            |
| 3000 MHz                  | 23  | na                | 78.4                            | 46.7                            | na           |
| 5000 MHz                  | 31  | na                | na                              | na                              | na           |
| 11000 MHz                 | 48  | na                | na                              | na                              | na           |
| FREQUENCY                 | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL |                   |                                 |                                 |              |
| 100 MHz                   | 1796                                      | 68                | 240                             | 400                             | 1400         |
| 400 MHz                   | 864                                       | 32                | 120                             | 275                             | 660          |
| 1000 MHz                  | 522                                       | 18                | 75                              | 150                             | 400          |
| 3000 MHz                  | 277                                       | na                | 40                              | 130                             | na           |
| 5000 MHz                  | 202                                       | na                | na                              | na                              | na           |
| 11000 MHz                 | 122                                       | na                | na                              | na                              | na           |

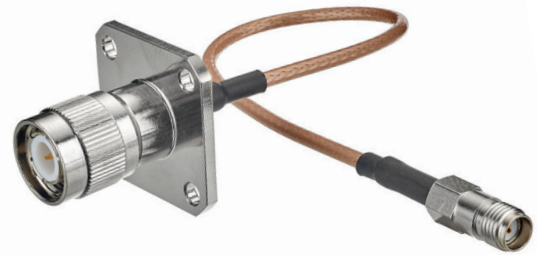
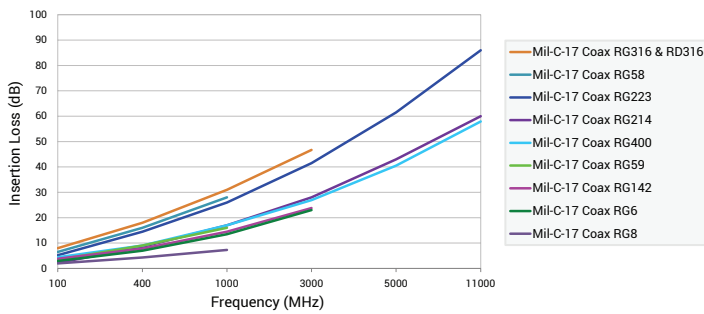


# SRC HAVERHILL CABLE ASSEMBLIES

## MIL-C-17 COAX CABLE ASSEMBLIES



MIL-C-17 COAX ATTENUATION IN dB/100 FT.



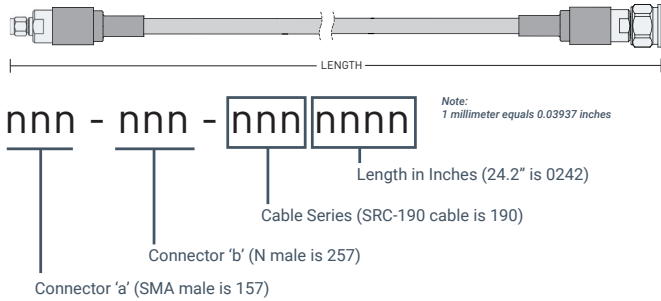
|                           |  | CABLE SERIES                              |              |             |                   |                                 |              |                           |                                 |                                 |                           |
|---------------------------|--|---|--------------|-------------|-------------------|---------------------------------|--------------|---------------------------|---------------------------------|---------------------------------|---------------------------|
| ELECTRICAL DATA           |  | RG6                                       | RG8          | RG58        | RG59              | RG142                           | RG214        | RG223                     | RG316                           | RD316                           | RG400                     |
| Impedance Ohm             |  | 76  | 50           | 50          | 75                | 50                              | 50           | 50                        | 50                              | 50                              | 50                        |
| Capacitance pF/ft @ 1 GHz |  | 20.6                                      | 29.6         | 30.8        | 20.6              | 29.4                            | 30.8         | 30.8                      | 29.4                            | 29.4                            | 29.4                      |
| Velocity of Propagation   |  | 66%                                       | 66%          | 66%         | 66%               | 69.5%                           | 66%          | 66%                       | 69.5%                           | 69.5%                           | 69.5%                     |
| Shielding (dB)            |  | 40  | 40           | 40          | 40                | 60                              | 60           | 60                        | 40                              | 60                              | 40                        |
| Max Voltage VRMS          |  | 3000                                      | 4000         | 1900        | 2300              | 1900                            | 5000         | 1900                      | 1200                            | 900                             | 1900                      |
| Power (Max Freq) Watts    |  | NA  | 320          | 90          | 130               | 1100                            | 330          | 86                        | 210                             | 210                             | 1050                      |
| Cutoff Frequency (MHz)    |  | 3000                                      | 1000         | 1000        | 1000              | 8000                            | 11000        | 12400                     | 3000                            | 3000                            | 12400                     |
| MECHANICAL DATA           |  |   |              |             |                   |                                 |              |                           |                                 |                                 |                           |
| Center Conductor          |  | Copper Clad Steel                         | Bare Copper  | Bare Copper | Copper Clad Steel | Silver Plated Copper Clad Steel | Bare Copper  | Silver Plated Copper Clad | Silver Plated Copper Clad Steel | Silver Plated Copper Clad Steel | Silver Plated Copper Clad |
| Dimension-inches (mm)     |  | .0285 (.72)                               | .088 (2.26)  | .032 (.81)  | .0226 (.55)       | .037 (.94)                      | .0888(2.26)  | .035 (.89)                | .021 (.53)                      | .021 (.53)                      | .039 (.98)                |
| Dielectric                |  | PE .185                                   | PE .285      | PE .116     | PE .146           | PTFE .116                       | PE .285      | PE .116                   | PTFE .060                       | PTFE .060                       | PTFE .116                 |
| Jacket                    |  | PVC-II .332                               | PVC-IIA .405 | PVC-I .195  | PVC-IIA .242      | FEP .195                        | PVC-IIA .425 | PVC-IIA .212              | FEP .098                        | FEP .114                        | FEP-IX .195               |
| Bend Radius-inches        |  | 3   | 2            | 1           | 1.2               | 1                               | 2.5          | 1                         | 0.5                             | 0.5                             | 1                         |
| ENVIRONMENTAL DATA        |  |   |              |             |                   |                                 |              |                           |                                 |                                 |                           |
| Temperature Range °C      |  | -40+80                                    | -40+80       | -40+80      | -40+80            | -55+200                         | -40+85       | -40+85                    | -55 +200                        | -55 +200                        | -55 +200                  |
| FREQUENCY                 |  | INSERTION LOSS (dB/100 FT)                |              |             |                   |                                 |              |                           |                                 |                                 |                           |
| 100 MHz                   |  | 2.9                                       | 2            | 6.5         | 3.4               | 3.8                             | 2.2          | 5.2                       | 8                               | 8                               | 4.4                       |
| 400 MHz                   |  | 6.5                                       | 4.3          | 10.2        | 9                 | 7.8                             | 6.8          | 12                        | 16.2                            | 16.2                            | 9                         |
| 1000 MHz                  |  | 9.8                                       | 7.3          | 28          | 16                | 12.8                            | 8            | 21                        | 26.1                            | 26.1                            | 14.7                      |
| 3000 MHz                  |  | 23  | na           | na          | na                | 23.8                            | 28           | 40                        | 46.7                            | 46.7                            | 26.9                      |
| 5000 MHz                  |  | na  | na           | na          | na                | na                              | 42           | 58                        | na                              | na                              | 36.1                      |
| 11000 MHz                 |  | na  | na           | na          | na                | na                              | 60           | 86                        | na                              | na                              | 57.9                      |
| FREQUENCY                 |  | AVERAGE POWER (Watts) @ 20° C @ SEA LEVEL |              |             |                   |                                 |              |                           |                                 |                                 |                           |
| 100 MHz                   |  | 310                                       | 100          | 360         | 270               | 1800                            | 990          | 395                       | 580                             | 580                             | 1,470                     |
| 400 MHz                   |  | 150                                       | 47           | 182         | 130               | 900                             | 500          | 196                       | 270                             | 270                             | 710                       |
| 1000 MHz                  |  | 90  | 28           | 98          | 80                | 530                             | 300          | 120                       | 150                             | 150                             | 430                       |
| 3000 MHz                  |  | 50  | na           | na          | na                | 260                             | 190          | 70                        | 90                              | 90                              | 230                       |
| 5000 MHz                  |  | na  | na           | na          | na                | na                              | 150          | 55                        | na                              | na                              | 170                       |
| 11000 MHz                 |  | na  | na           | na          | na                | na                              | 60           | 20                        | na                              | na                              | 100                       |

# SRC HAVERHILL CABLE ASSEMBLIES

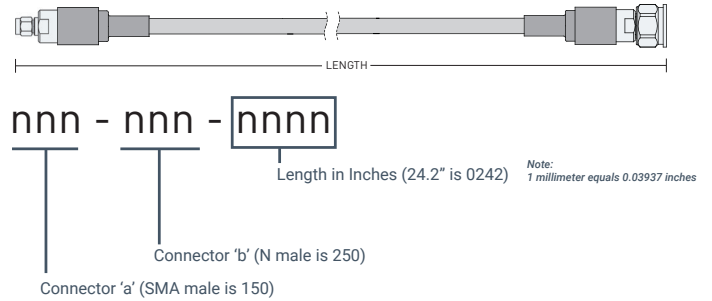
## CABLE ASSEMBLY PART NUMBER



### VORTEX ASSEMBLY EXAMPLE



### STANDARD ASSEMBLY EXAMPLE

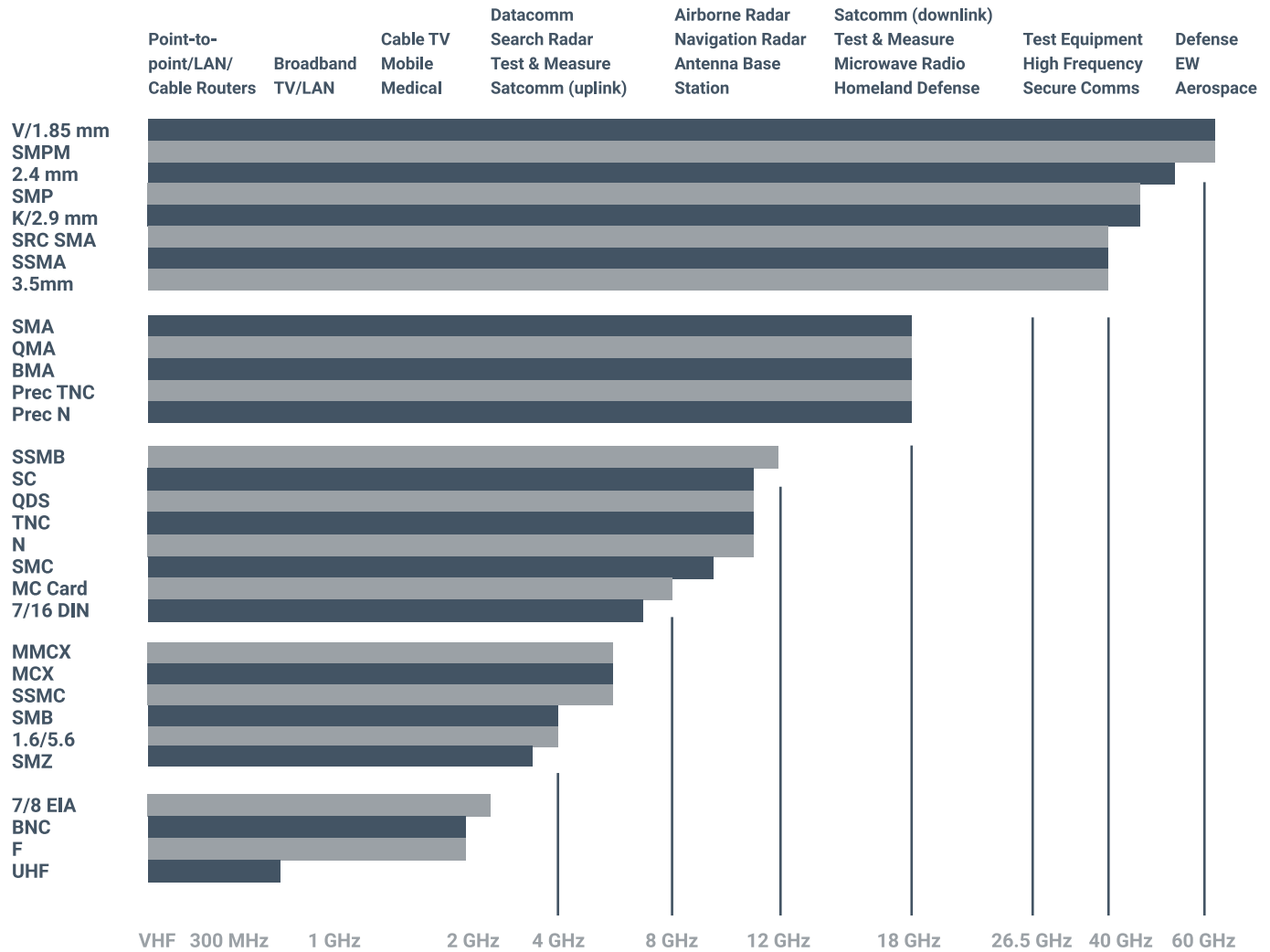


| CONNECTOR TYPE | CONNECTOR STYLE | CONNECTOR STYLE       | CONNECTOR STYLE |
|----------------|-----------------|-----------------------|-----------------|
| SMA            | 1               | Male Straight         | 50              |
| N              | 2               | Male Right Angle      | 51              |
| BNC            | 3               | Male Low Profile      | 52              |
| SMB            | 4               | Male Reverse Polarity | 53              |
| TNC            | 5               | Male Misc             | 54              |
| MCX            | 6               | Male Precision        | 55              |
| SMC            | 7               | With Wire Hole        | 56              |
| F              | 8               | Vortex                | 57              |
| SMZ            | 9               | Female Straight       | 60              |
| SMP            | A               | Female Bulkhead       | 61              |
| SSMA           | B               | Female 4 Hole Flange  | 62              |
| SSMB           | C               | Female 2 Hole Flange  | 63              |
| MMCX           | D               | Female Misc           | 64              |
| 2.9mm          | E               | Female Right Angle    | 65              |
| UHF            | F               | <b>CABLE TYPE</b>     |                 |
| UHF (mini)     | G               | RG6                   | 06              |
| SSMC           | H               | RG8                   | 17              |
| 7/16 DIN       | J               | RG58                  | 58              |
| 2.4mm          | L               | RG59                  | 59              |
| SMPM           | M               | RG142                 | 86              |
| BLINDMATE      | N               | SF142                 | 91              |
| 1.6/5.6        | P               | RG174                 | 00              |
| 3.5mm          | Q               | RG178                 | 99              |
| 7/8 EIA        | R               | RD178                 | 11              |
| QMA            | S               | RG179                 | 85              |
| SC             | T               | RD179                 | 92              |
| V(1.85mm)      | V               | RG188                 | 18              |
| MC Card        | X               | RG196                 | 68              |
| HN             | I               | RG213                 | 13              |
| SC             | T               | RG214                 | 14              |
| QC-SMA         | R               | RG223                 | 23              |
| QC-2.9         | K               | RG316                 | 83              |
|                |                 | RD316                 | 84              |
|                |                 | RG393                 | 39              |
|                |                 | RG400                 | 44              |

| CABLE TYPE (CONTINUED) | CABLE TYPE (CONTINUED) |
|------------------------|------------------------|
| LMR100                 | 10                     |
| LMR195                 | 96                     |
| LMR195DB               | 64                     |
| LMR195PVC              | 95                     |
| LMR200                 | 87                     |
| LMR240                 | 88                     |
| LMR300                 | 73                     |
| LMR300DB               | 65                     |
| LMR400                 | 89                     |
| LMR400DB               | 40                     |
| LMR500                 | 93                     |
| LMR600                 | 90                     |
| LMR600DB               | 62                     |
| LMR900DB               | 07                     |
| LMR1200                | 94                     |
| LMR1200DB              | 12                     |
| T-FLEX 401             | 24                     |
| T-FLEX 402             | 80                     |
| T-FLEX 405             | 82                     |
| <b>VORTEX CABLES</b>   |                        |
| SRC-140                | 140                    |
| SRC-210                | 210                    |
| SRC-150                | 150                    |
| SRC-215                | 215                    |
| SRC-190                | 190                    |
| SRC-260                | 260                    |
| SRC-224                | 224                    |
| SRC-290                | 290                    |
| SRC-305                | 305                    |
| SRC-390                | 390                    |

| SRC CUSTOM CABLES                | SRC CUSTOM CABLES |
|----------------------------------|-------------------|
| HF047                            | 27                |
| HF086                            | 28                |
| HF141                            | 29                |
| SRC-402SF                        | 66                |
| SRC-405SF                        | 67                |
| SRC316                           | SRC 316           |
| SRC316 Triple Shield             | SRC 316TS         |
| <b>SEMI-RIGID</b>                |                   |
| .020 Copper                      | 22                |
| .034 Copper                      | 36                |
| .047 Copper                      | 47                |
| .047 Conformable                 | 48                |
| .047 Aluminum - Tin Plate        | 49                |
| .047 Bare Copper                 | 37                |
| .085 Bare Copper                 | 33                |
| .085 Copper - Tin Plate          | 78                |
| .085 Conformable                 | 98                |
| .085 Conf w/Jacket               | 05                |
| .085 Aluminum - Tin Plate        | 77                |
| .116 Copper                      | 16                |
| .141 Copper                      | 76                |
| .141 Conformable                 | 97                |
| .141 Conf w/Jacket               | 15                |
| .141 Aluminum - Tin Plate        | 75                |
| .141 Bare Copper                 | 63                |
| .250 Copper                      | 25                |
| .250 Aluminum-Tin Plated         | 19                |
| .250 Conformable                 | 26                |
| <b>MISCELLANEOUS CABLE TYPES</b> |                   |
| .085 75 Ohm                      | 71                |
| 1/4" Andrews Superflex           | 20                |
| 1/2" Andrews Superflex           | 03                |
| 1/2" Andrews Foam Helix          | 02                |

# SRC HAVERHILL CABLE ASSEMBLIES SELECTION GUIDE





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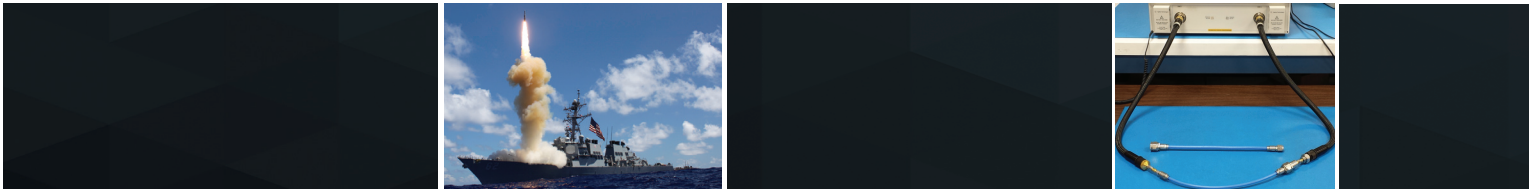
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## BRANDS

