

SMA Hand-Formable Fixed Length Cable Assemblies for RF/Microwave Applications



Emerson Network Power Connectivity Solutions has added to its Johnson® product line a series of SMA Hand-Formable, fixed-length cable assemblies for RF/Microwave applications.

These Hand-Formable cable assemblies are an excellent alternative to semi-rigid cables which are more costly and less flexible during early stages of design and effectively eliminate additional tooling charges.

In conjunction with our popular Johnson® brand of connectors on each end, these SMA Hand-Formable cable assemblies are constructed of a silver-plated, copper covered steel conductor, with an additional copper-tin composite braid foil. When RF interference isn't an option, these cables provide 100% shielded cable coverage assuring an outstanding VSWR and low insertion loss of up to 18 GHz.

Available in a variety of lengths off-the-shelf, these Hand-Formable SMA cable assemblies offer users a high quality, low cost solution. As with all other RF cable assemblies provided by Johnson®, these assemblies are also available in custom lengths upon request.

Key Features & Benefits

- Constructed with Johnson® Premium SMA Connectors
- Assembled with 50 Ohm Hand-Formable Microwave Cable
- 100% Shielded Cable Coverage
- Available in .086 & .141 cable diameters
- Off-the-Shelf Availability
- Low-cost alternative to Custom-made cables
- Excellent VSWR to 18 GHz for Microwave applications



| Part No. | Cable Assembly | Conn. 1 | Conn. 2 | Length* |
|--------------|--------------------------|--------------------|--------------------|---------|
| 415-0081-003 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 3 in. |
| 415-0081-004 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 4 in. |
| 415-0081-005 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 5 in. |
| 415-0081-006 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 6 in. |
| 415-0081-007 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 7 in. |
| 415-0081-008 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 8 in. |
| 415-0081-012 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 12 in. |
| 415-0081-018 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 18 in. |
| 415-0081-024 | Hand-Formable .086 Cable | SMA Plug, Straight | SMA Plug, Straight | 24 in. |
| 415-0082-003 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 3 in. |
| 415-0082-004 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 4 in. |
| 415-0082-005 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 5 in. |
| 415-0082-006 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 6 in. |
| 415-0082-007 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 7 in. |
| 415-0082-008 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 8 in. |
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| 415-0082-018 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 18 in. |
| 415-0082-024 | Hand-Formable .141 Cable | SMA Plug, Straight | SMA Plug, Straight | 24 in. |

*Ref Plane to Ref Plane

Electrical Ratings

| Part No. | Length (inches) | Nominal Electrical Delay (ns) | Insertion Loss (dB Max) Vs Frequency (GHz) | | | | | | VSWR (MAX) Vs Frequency (GHz) | | |
|--------------|-----------------|-------------------------------|--|--------|--------|--------|---------|----------|-------------------------------|--------|----------|
| | | | 0 to 1 | 1 to 2 | 2 to 4 | 4 to 6 | 6 to 12 | 12 to 18 | 0 to 1 | 1 to 2 | 2 to 18 |
| 415-0081-003 | 3.00±.05 | 0.36 | 0.12 | 0.17 | 0.24 | 0.29 | 0.41 | 0.51 | 1.06 | 1.10 | 1.1+.01f |
| 415-0081-004 | 4.00±.05 | 0.49 | 0.14 | 0.20 | 0.29 | 0.35 | 0.49 | 0.60 | | | |
| 415-0081-005 | 5.00±.10 | 0.61 | 0.17 | 0.23 | 0.33 | 0.40 | 0.57 | 0.70 | | | |
| 415-0081-006 | 6.00±.10 | 0.73 | 0.19 | 0.26 | 0.38 | 0.46 | 0.65 | 0.79 | | | |
| 415-0081-007 | 7.00±.10 | 0.85 | 0.21 | 0.30 | 0.42 | 0.51 | 0.72 | 0.89 | | | |
| 415-0081-008 | 8.00±.10 | 0.97 | 0.23 | 0.33 | 0.47 | 0.57 | 0.80 | 0.98 | | | |
| 415-0081-012 | 12.00±.15 | 1.46 | 0.32 | 0.45 | 0.65 | 0.79 | 1.11 | 1.36 | | | |
| 415-0081-018 | 18.00±.15 | 2.19 | 0.46 | 0.64 | 0.92 | 1.12 | 1.58 | 1.93 | | | |
| 415-0081-024 | 24.00±.15 | 2.92 | 0.59 | 0.83 | 1.19 | 1.45 | 2.04 | 2.49 | | | |
| 415-0082-003 | 3.00±.05 | 0.36 | 0.09 | 0.13 | 0.19 | 0.24 | 0.34 | 0.43 | 1.06 | 1.10 | 1.1+.01f |
| 415-0082-004 | 4.00±.05 | 0.49 | 0.10 | 0.15 | 0.22 | 0.27 | 0.39 | 0.49 | | | |
| 415-0082-005 | 5.00±.10 | 0.61 | 0.12 | 0.17 | 0.24 | 0.30 | 0.44 | 0.56 | | | |
| 415-0082-006 | 6.00±.10 | 0.73 | 0.13 | 0.18 | 0.27 | 0.34 | 0.49 | 0.62 | | | |
| 415-0082-007 | 7.00±.10 | 0.85 | 0.14 | 0.20 | 0.30 | 0.37 | 0.54 | 0.69 | | | |
| 415-0082-008 | 8.00±.10 | 0.97 | 0.15 | 0.22 | 0.32 | 0.40 | 0.59 | 0.75 | | | |
| 415-0082-012 | 12.00±.15 | 1.46 | 0.20 | 0.29 | 0.43 | 0.54 | 0.79 | 1.01 | | | |
| 415-0082-018 | 18.00±.15 | 2.19 | 0.27 | 0.39 | 0.59 | 0.74 | 1.09 | 1.40 | | | |
| 415-0082-024 | 24.00±.15 | 2.92 | 0.35 | 0.50 | 0.75 | 0.94 | 1.39 | 1.79 | | | |

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