Semi Flexible & Hand Formable Cable Assemblies

HD-TECH
postmaster@hd-tech.fr | www.hd-tech.fr
Tel: +33(0)164955553 | Fax: +33(0)164955567
27 Rue Louis Moreau - 91150 ETAMPES

HD-TECH's semi flexible cable assemblies offer reliable, easier to install alternatives to traditional semi rigid cable assemblies. Constructed with high-performance flexible cables, such as T-Flex® from Times Microwave Systems, these 50 ohms semi flexible cable assemblies meet all MIL-C-17 requirements with shielding effectiveness comparable to standard semi rigid cables. Suitable for applications through 18 GHz, these semi flexible cable assemblies feature PTFE (Teflon®) dielectric with silver plated copper tape and braid shield and fluorinated ethylene propylene (FEP) jacket.

HD-TECH's semi flexible cable assemblies feature excellent corrosion resistance with stable attenuation and phase characteristics over time. They are available in standard and custom lengths with outside diameters of 0.104 (T-Flex 405), 0.160 (T-Flex 402), and 0.270 in. (T-Flex 401). Outer conductors, noted in pull-down with models, are 0.086, 0.141, and 0.250 in. respectively. They offer the convenience of flexibility but with performance comparable to standard semi rigid cables, with attenuation of 0.12 dB/ft. at 1 GHz and 0.45 dB/ft. at 10 GHz, and 0.66 dB/ft at 18 Ghz for a 0.160 in. outside-diameter flexible cable assembly. The VSWR for a 3-ft, 0.141-in diameter SMA assembly remains low through 18 GHz.

HD-TECH's semi flexible cable assemblies can be terminated with the same coaxial connector types used for semi-rigid cables, including SMA, BNC, 7/16, SMP, and TNC connectors. T-Flex is a registered trademark of Times Microwave Systems. Teflon is a registered trademark of Dupont.

Cabling and assembling specifications :

Semi Flexible cables available and specifications comparator : PDF

Feel free to contact us for any inquiries about HD-TECH, our products, members and tailor-made services, request for quote, shipping, stock checking, ect... See our complete details on next page.

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HD-TECH's hand formable (comparable to Conformable®) cable assemblies provide the performance of semi-rigid cable assemblies past 18 GHz, but can be easily bent into a desired shape without tools. Once bent, they will retain that form with minimal memory effects.

HD-TECH's hand formable cable assemblies provide greater ease of use than factory formed semi-rigid cable assemblies, with little or no sacrifice in electrical performance compared to a formed semi-rigid cable assembly of the same size. These hand-formable cable assemblies minimize signal losses by means of a PTFE dielectric. They incorporate a copper-tin composite outer conductor to achieve excellent shielding effectiveness of more than 100 dB. The typical insertion loss for a 0.141-in diameter cable hand-formable assembly is about 0.7 dB/ft at 18 GHz, while the VSWR for that same cable assembly remains low through 18 GHz.

HD-TECH's hand-formable cable assemblies are available in a wide range of standard and custom lengths with the same connector choices as for semi-rigid cable assemblies, including anti-torque connectors, SMA, 7/16, BNC, N, and TNC connectors. Conformable is a registered trademark of Belden, Inc.

Cabling and assembling specifications :

Hand formable cables available and specifications comparator : PDF

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27 Rue Louis Moreau - 91150 ETAMPES

Postal address :
27 Rue Louis Moreau
91150 ETAMPES - France
www.hd-tech.fr

GPS :
Latitude : 48.4354799
Longitude : 2.1593165

Haïping WANG - General manager
Tél : +33(0)1 64 95 55 57
Portable : +33(0)6 19 76 91 88
Email : wanghp@hd-tech.fr

Kamel DJERMOULI - Sales manager
Tél : +33(0)1 64 95 55 54
Portable : +33(0)6 63 53 24 70
Email : k.djermouli@hd-tech.fr

Fangxia WU - Administration
Tél : +33(0)1 64 95 55 55
Portable : +33(0)6 14 18 01 98
Email : wfx@hd-tech.fr

Anne-Céline DJERMOULI - Sales assistant
Tél : +33(0)1 64 95 55 53
Portable : +33(0)6 63 53 24 70
Email : ac.djermouli@hd-tech.fr

Home numbers :
Phone : +33(0)1 64 95 55 53
Fax : +33(0)1 64 95 55 67
Email : postmaster@hd-tech.fr

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