



The CA178 cable assemblies offered by Laird are engineered for peak performance up to 6 GHz. They are tested 100% and certified to meet performance specifications. Equipment manufacturers require certified cable assemblies to minimize system losses to within known parameters and these cable assemblies meet those requirements. The manufacturing processes and raw materials are well controlled in order to provide very consistent performance from lot to lot.

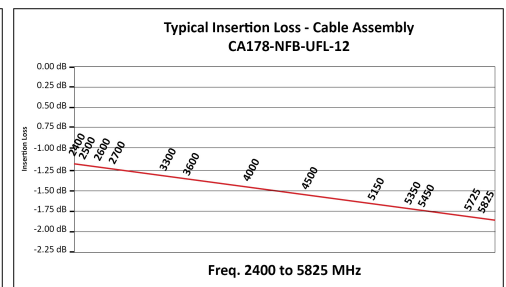
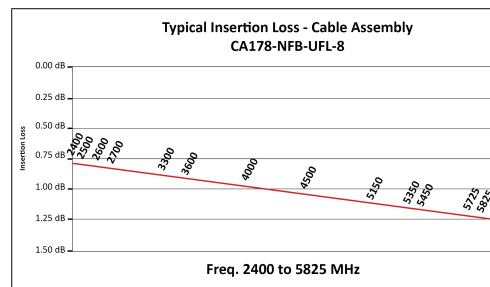
#### FEATURES

- Consistent low loss design construction
- 100% tested and certified to meet specifications
- Various connector options available
- Flexible high temperature kink resistant cable jacket

#### MARKETS

- High performance wireless systems
- OEM equipment
- WiMAX

#### INSERTION LOSS BY FREQUENCY



| PARAMETER                        | CA178-NFB-UFL-8         | CA178-NFB-UFL-12        |
|----------------------------------|-------------------------|-------------------------|
| Insertion loss<br>(700-5825 MHz) | -1.5 dB max             | -2.5 dB max             |
| Length                           | 8 in (203 mm)           | 12 in (305 mm)          |
| Weight                           | 1.4 oz (40 gm)          | 1.5 oz (43 gm)          |
| Connector types                  | N female bulkhead - UFL | N female bulkhead - UFL |
| N connector seal                 | O-ring                  | O-ring                  |
| Contact plating                  | Gold                    | Gold                    |
| Operating temperature            | -40 to +125°C           | -40 to +125°C           |

#### SYSTEM ORDERING

|                  |                                |
|------------------|--------------------------------|
| CA178-NFB-UFL-8  | N Female Bulkhead to U.FL 8 in |
| CA178-NFB-UFL-12 | N Female Bulkhead to U.FL      |
| CA178-NM-UFL-8   | 12 in N Male to U.FL 8 in      |
| CA178-NM-UFL-12  | N Male to U.FL 12 in           |

Americas: +1.847 839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941  
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

| PART NUMBER            | CONNECTOR 1                           | CONNECTOR 2               | CABLE LENGTH (INCHES) | CABLE TYPE          | MAX INSERTION LOSS (DB) |
|------------------------|---------------------------------------|---------------------------|-----------------------|---------------------|-------------------------|
| CA100-NFB-MC-12        | N female bulkhead                     | MC-card                   | 12                    | LMR100 (equivalent) | 1.5                     |
| CA100-NFB-MMCX-12      | N female bulkhead                     | MMCX                      | 12                    | LMR100 (equivalent) | 1.5                     |
| CA100-NFB-RASMAM-12    | N female bulkhead                     | Right angle SMA male      | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NFB-RMMCX-12     | N female bulkhead                     | Reverse polarity MMCX     | 12                    | LMR100 (equivalent) | 1.5                     |
| CA100-NFB-RSMAM-12     | N female bulkhead                     | Reverse polarity SMA male | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NFB-RTNCM-12     | N female bulkhead                     | Reverse polarity TNC male | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NFB-SMAM-8       | N female bulkhead                     | SMA male                  | 8                     | LMR100 (equivalent) | 0.8                     |
| CA100-NM-MC-12         | N male                                | MC-card                   | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NM-MMCX-12       | N male                                | MMCX                      | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NM-RASMAM-12     | N male                                | Right angle SMA male      | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NM-RSMAM-12      | N male                                | Reverse polarity SMA male | 12                    | LMR100 (equivalent) | 1                       |
| CA100-NM-RTNCM-12      | N male                                | Reverse polarity TNC male | 12                    | LMR100 (equivalent) | 1                       |
| CA100-RPSMAM-RASMAM-12 | Reverse polarity SMA male             | Right angle SMA male      | 12                    | LMR100 (equivalent) | 1                       |
| CA100-RPTNCF-NC-6      | Reverse polarity TNC female bulkhead  | No connector              | 6                     | LMR100 (equivalent) | 0.5                     |
| CA100-RPTNCM-RASMAM-12 | Reverse polarity TNC male             | Right angle SMA male      | 12                    | LMR100 (equivalent) | 1                       |
| CA100-TNCF-NC-6        | TNC female bulkhead                   | No connector              | 6                     | LMR100 (equivalent) | 0.5                     |
| CA178-NFB-UFL-12       | N female bulkhead                     | U.FL                      | 12                    | RG178 hi freq       | 2                       |
| CA178-NFB-UFL-8        | N female bulkhead                     | U.FL                      | 8                     | RG178 hi freq       | 1.5                     |
| CA178-NM-UFL-12        | N male                                | U.FL                      | 12                    | RG178 hi freq       | 2                       |
| CA178-NM-UFL-8         | N male                                | U.FL                      | 8                     | RG178 hi freq       | 1.5                     |
| CA178-RTNCB-MMCX-4     | Reverse polarity TNC bulkhead (black) |                           | 4                     | RG178 hi freq       | 0.8                     |
| CA178-RTNCB-MMCX-6     | MMCX Reverse polarity TNC bulkhead    |                           | 6                     | RG178 hi freq       | 1                       |
| CA178-RTNCB-UFL-6      | (black) MMCX Reverse polarity TNC     |                           | 6                     | RG178 hi freq       | 1                       |
| CA400-NM-NM-48         | N male bulkhead (black) U.FL          | N male                    | 48                    | LMR400 (equivalent) | 0.8                     |
| CA58-NM-MCX-197        | N male                                | MCX                       | 197                   | RG58/u (white)      | 5                       |
| CA58-SMA-MCX-96        | Right angle SMA male                  | MCX                       | 96                    | RG58/u (white)      | 2.5                     |
| CA58-SMA-NF-96         | Right angle SMA male                  | N female bulkhead         | 96                    | RG58/u (white)      | 2.5                     |
| CA58-SMA-RSMA-96       | Right angle SMA male                  | Reverse polarity SMA male | 96                    | RG58/u (white)      | 2.5                     |
| CA58-SMA-RTNC-96       | Right angle SMA male                  | Reverse polarity TNC male | 96                    | RG58/u (white)      | 2.5                     |
| CA58-SMA-SMAF-96       | Right angle SMA male                  | SMA female bulkhead       | 96                    | RG58/u (white)      | 2.5                     |

Americas: +1.847 839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941  
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

ANT-DS-CA178 0115

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.