

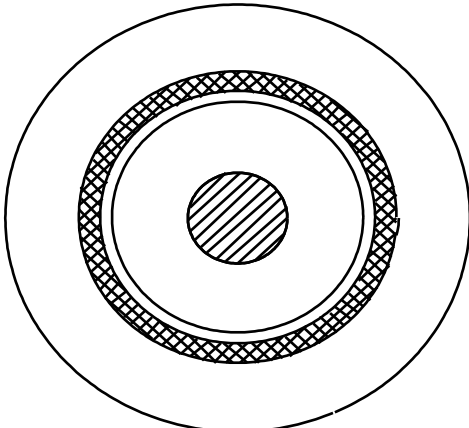


## Low Loss RG58/CFD200/HDF200

### Physical Characteristics

|                                |                                                |
|--------------------------------|------------------------------------------------|
| <b>Center Conductor</b>        | <b>1.12mm(bare copper solid)</b>               |
| <b>PEF Dielectric Diameter</b> | <b>2.95mm</b>                                  |
| <b>Binder</b>                  | <b>Sealed Aluminum Mylar<br/>Aluminum Tape</b> |
| <b>Braid Shield</b>            | <b>Tinned Copper Wire<br/>Coverage: 88% ↑</b>  |
| <b>Jacket</b>                  | <b>PVC or PE</b>                               |
| <b>Overall Diameter</b>        | <b>5mm</b>                                     |
| <b>Minimum Bend Radius</b>     | <b>12.7mm</b>                                  |

### Low Loss RG58/CFD200/HDF200 Electrical Characteristics

|                                                                                                                                                          |                   |                             |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------|------------------|
| <b>Impedance</b>                                                                                                                                         | <b>50 ± 2ohms</b> |                             |                  |
| <b>Capacitance</b>                                                                                                                                       | <b>24.5 pf/ft</b> |                             |                  |
| <b>Velocity of Propagation</b>                                                                                                                           | <b>83%</b>        |                             |                  |
| <b>Maximum Attenuation(dB/100M)<br/>&amp; Average Handling Power</b>  | <b>Freq.</b>      | <b>Attenuation(dB/100M)</b> | <b>Power(KW)</b> |
|                                                                                                                                                          | <b>30MHz</b>      | <b>5.8</b>                  | <b>1.02</b>      |
|                                                                                                                                                          | <b>150MHz</b>     | <b>13.1</b>                 | <b>0.45</b>      |
|                                                                                                                                                          | <b>450MHz</b>     | <b>22.8</b>                 | <b>0.26</b>      |
|                                                                                                                                                          | <b>900MHz</b>     | <b>32.6</b>                 | <b>0.18</b>      |
|                                                                                                                                                          | <b>1500MHz</b>    | <b>42.4</b>                 | <b>0.14</b>      |
|                                                                                                                                                          | <b>2GHz</b>       | <b>49.3</b>                 | <b>0.12</b>      |
|                                                                                                                                                          | <b>2.5GHz</b>     | <b>55.4</b>                 | <b>0.11</b>      |
|                                                                                                                                                          | <b>5.8GHz</b>     | <b>86.5</b>                 | <b>0.07</b>      |

整條 Assembly 之 Loss 為以下 3 項數值之加總

- 1.接頭 Loss :  $0.06 \times \sqrt{\text{頻率}}$  ( 2 端都有接頭則需將此數值 x2 )
- 2.組裝 Loss : 0.12 ( 2 端都有組裝則需將此數值 x2 )
- 3.線材 Loss : 依上述 Maximum Attenuation 換算需求長度之 Loss

## Specifications:

### Electrical:

Frequency:DC-5.8GHz

VSWR:1.3:1(Max.)

### Material:

1.Reverse SMA Male Connector:

Center Pin:Phosphor Bronze/Gold

Insulator:Teflon

Body:Brass/Gold

2.Heat Shrink Tube:

Color:Black

3.Reverse SMA Female Connector:

Center Pin:Brass/Gold

Insulator:Teflon

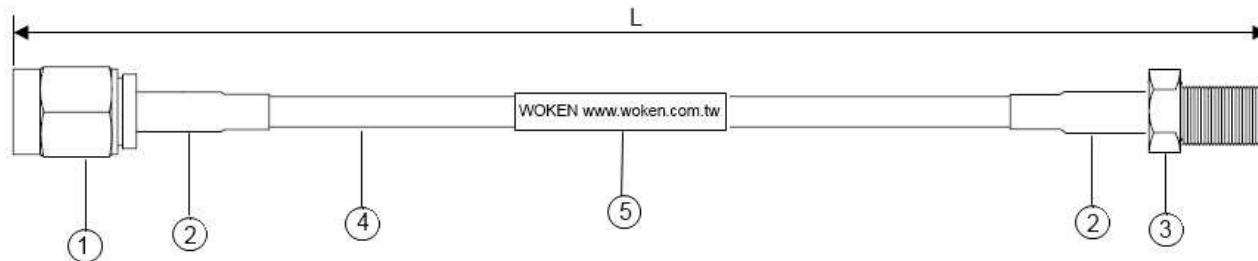
Body:Brass/Gold

4.Cable:

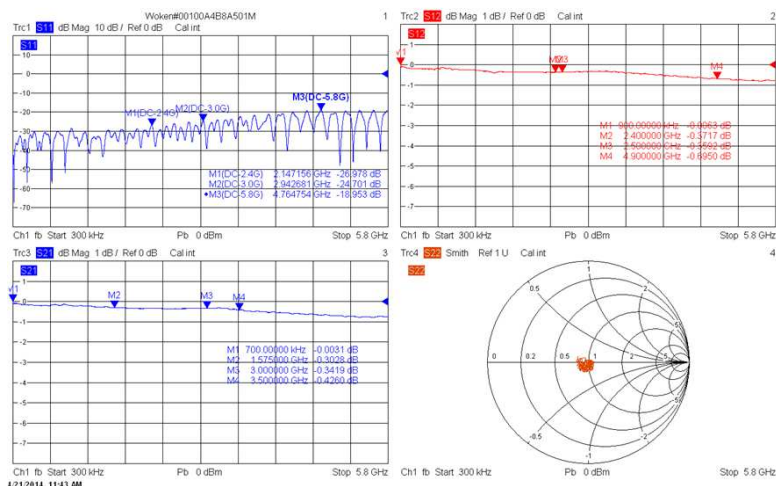
CFD200 Coaxial Cable

5.Heat Shrink Tube:

Color:Yellow



### 60cm Test Report:



| General Tolerance          |       |         |           |  Woken Technology Inc. |                                   |
|----------------------------|-------|---------|-----------|-------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 0.5~10mm                   |       | ±0.2    |           | CODE                                                                                                        | DWG TITLE                         |
| 11~100mm                   |       | ±5.0    |           |                                                                                                             |                                   |
| 101~500mm                  |       | ±10.0   |           | SIZE                                                                                                        | Reverse SMA(M)-Reverse SMA(F) for |
| 501~1000mm                 |       | ±15.0   |           |                                                                                                             |                                   |
| 1001~2000mm                |       | ±20.0   |           | REV                                                                                                         | CFD200 Cable Assembly             |
| 2000~5000mm                |       | ±50.0   |           |                                                                                                             |                                   |
| UNLESS OTHERWISE SPECIFIED |       |         |           | A4                                                                                                          | DWG NO.                           |
| THIRD ANGLE PROJECTION     | DRAWN | Terence | 08/03/10' |                                                                                                             |                                   |
|                            | ENGR  | Jack    | 08/03/10' | A                                                                                                           | 00100A4B8A5XXX                    |
|                            | APVD  | James   | 08/03/10' |                                                                                                             |                                   |