



## EM-B810 Series, Ultra Low Loss, Phase Stable, N-Type Cable Assembly

### Features

- VSWR 1.35:1 Max up to 18GHz
- N-Type Male Connectors both ends
- 83% Phase Velocity
- Double Shielded
- Shielding Effectivity 100dB
- FEP Outer Jacket, Gray
- B810 Series Ultra Low Loss
- Phase and Amplitude Stable



EM-B810NM-276

### ELECTRICAL SPECIFICATION (25° C, sea level)

| Description             | Min | Typ  | Max    | Units/Note |
|-------------------------|-----|------|--------|------------|
| Impedance               |     | 50Ω  |        | Ohm        |
| Frequency               | DC  |      | 18     | GHz        |
| VSWR                    |     |      | 1.35:1 | @18GHz     |
| Velocity of Propagation |     | 83   |        | %          |
| Dielectric Withstand    |     | 1000 |        | Volts      |
| RF Shielding            |     | 100  |        | dB         |
| Capacitance             |     | 80   |        | pF/m       |
| Temperature             | -55 |      | 125    | ° C        |

### Performance by Frequency

| Description           | F1     | F2     | F3    | F4    |
|-----------------------|--------|--------|-------|-------|
| Frequency             | 1GHz   | 5GHz   | 10GHz | 18GHz |
| Insertion Loss (Typ.) | 0.95dB | 2.15dB | 3.5dB | 4.6dB |

### MECHANICAL SPECIFICATION, CONNECTORS

| Description     | Connector 1       | Connector 2       |
|-----------------|-------------------|-------------------|
| Type            | N-Type Male       | N-Type Male       |
| Interface Spec  | MIL-STD-348       | MIL-STD-348       |
| Mating Cycles   | 500               | 500               |
| Hex Wrench Size | 3/4 Inch          | 3/4 Inch          |
| Mating Torque   | 14 in-lbs/1.58 nm | 14 in-lbs/1.58 nm |
| Material        | Stainless Steel   | Stainless Steel   |
| Pin             | Gold Plated BeCu  | Gold Plated BeCu  |
| Dielectric Type | PTFE              | PTFE              |

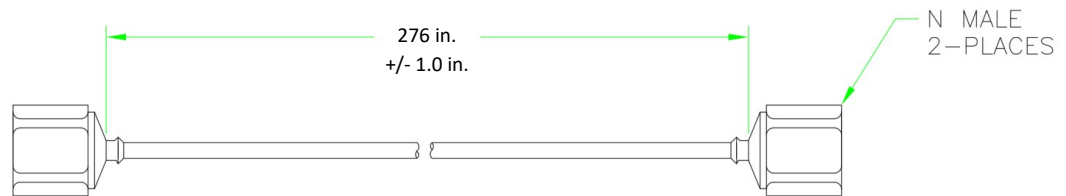
Order PN:  
EM-B810NM-276

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## EM-B810 Series, Ultra Low Loss, Phase Stable, N-Type Cable Assembly

| MECHANICAL SPECIFICATION, CABLE      |                                    |
|--------------------------------------|------------------------------------|
| Description                          | Connector 1                        |
| Cable Type                           | B810 Series (Data Sheet Available) |
| Diameter                             | 0.319in. (8.1mm)                   |
| Weight                               | 2.25Lbs for 276in. (0.146kg/m)     |
| Inner Conductor Type                 | Solid                              |
| Inner Conductor Material and Plating | Silver Plated Copper               |
| Dielectric Type                      | LD-PTFE                            |
| Shield Layer 1                       | Silver Plated Copper Tape          |
| Shield Layer 2                       | Silver Plated Copper Braided Wire  |
| Jacket Material                      | FEP                                |
| Minimum Bend Radius, Static          | 1.59in. (40.5mm)                   |
| Minimum Bend Radius, Dynamic         | 3.18in. (81mm)                     |
| Length                               | 276in.(7.01m)                      |



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