

# Flexible Cable Assemblies

2.92mm

The Johnson™ 2.92mm Straight Plug - 2.92mm Straight Plug, 40 GHz Flexible Cable Assemblies allow connectivity in engineering lab and manufacturing environments for precision test and measurement applications.

Johnson 2.92mm Flexible Cable Assemblies are available in both imperial and metric lengths. Customized configurations available by request.



## Features

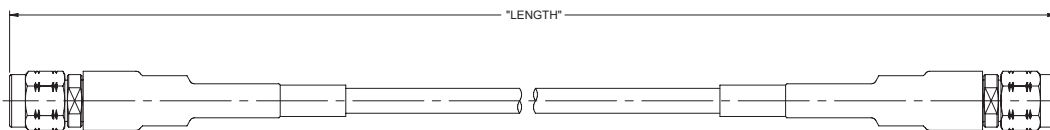
- Excellent operating performance to 40 GHz
- VSWR max of 1.25
- Vp, Velocity of Propagation of 76%

## Applications

- Test & Measurement equipment
- Manufacturing lab
- LAN router
- WAN system equipment

### 2.92mm Straight Plug to 2.92mm Straight Plug

| Part Number    | Cable Length |         | Cable Type | Tolerance | Insertion Loss (Max dB) |          | VSWR (Max)<br>40 GHz |
|----------------|--------------|---------|------------|-----------|-------------------------|----------|----------------------|
|                |              |         |            |           | 20 GHz                  | 40 GHz   |                      |
| 415-0210-MM100 | -            | 100 mm  | HP160S     | ±4        | <-0.98dB                | <-1.69dB | 1.25                 |
| 415-0210-006   | 6 inch       | -       | HP160S     | ±0.157    | <-0.77dB                | <-1.37dB | 1.25                 |
| 415-0210-MM200 | -            | 200 mm  | HP160S     | ±5        | <-1.53dB                | <-2.50dB | 1.25                 |
| 415-0210-012   | 12 inch      | -       | HP160S     | ±0.197    | <-1.10dB                | <-1.87dB | 1.25                 |
| 415-0210-018   | 18 inch      | -       | HP160S     | ±0.315    | <-1.44dB                | <-2.36dB | 1.25                 |
| 415-0210-MM500 | -            | 500mm   | HP160S     | ±10       | <-1.53dB                | <-2.50dB | 1.25                 |
| 415-0210-024   | 24 inch      | -       | HP160S     | ±0.590    | <-1.77dB                | <-2.86dB | 1.25                 |
| 415-0210-MM750 | -            | 750mm   | HP160S     | ±15       | <-2.07dB                | <-3.31dB | 1.25                 |
| 415-0210-036   | 36 inch      | -       | HP160S     | ±1.18     | <-2.43dB                | <-3.85dB | 1.25                 |
| 415-0210-M1.0  | -            | 1000 mm | HP160S     | ±30       | <-2.62dB                | <-4.12dB | 1.25                 |

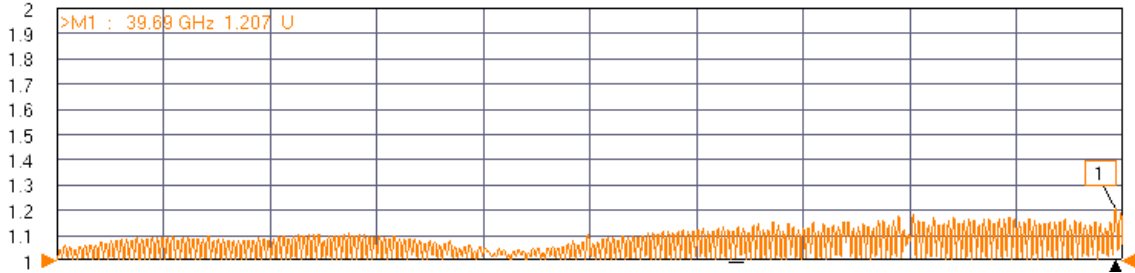


# 2.92mm 40 GHz Flexible Cable Assemblies

## S-Parameter Data / Graphs – Typical Cable Assembly Performance

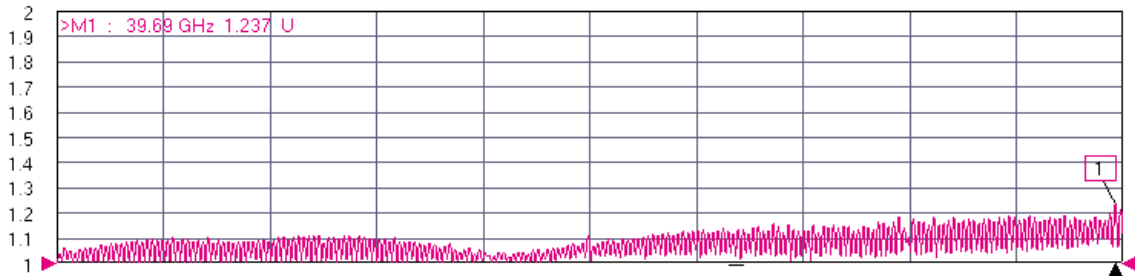
### Typical VSWR (S11)

Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



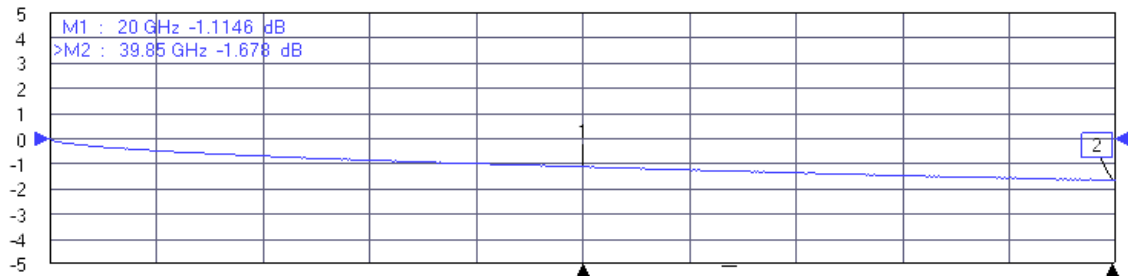
### (S22)

Tr2 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



### Typical Insertion Loss/ Attenuation (S21)

Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



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