



# TrueConnect™ - 1/4" Superflexible Cable

Model No. 14/SF

Higher Standards. Superior Quality.



## FEATURES

- In-Building Systems (DAS)
- Cabling for VHF, UHF, 700, 850, PCS, & AWS Bands
- RF Cable Jumper Assemblies where low PIM is required

## Construction Materials and Dimensions

|                 |               |                           |
|-----------------|---------------|---------------------------|
| Inner Conductor | Material      | Copper Clad Aluminum Wire |
|                 | Diameter, in. | 0.075                     |
| Dielectric      | Material      | Physically foamed PE      |
|                 | Diameter, in. | 0.185                     |
| Outer Conductor | Material      | Helical Corrugated Copper |
|                 | Diameter, in. | 0.250                     |
| Jacket          | Material      | PE                        |
|                 | Diameter, in. | 0.290                     |

## Electrical Specifications

|  |                    |
|--|--------------------|
| Inner conductor DC resistance, $\Omega$ /kft | 3.0                |
| Outer conductor DC resistance, $\Omega$ /kft | 2.0                |
| Impedance, $\Omega$                          | 50 $\pm$ 2         |
| Inductance, $\mu$ H/ft                       | 0.2                |
| Capacitance, pF/ft                           | 24.2               |
| Propogations velocity, %                     | 84                 |
| DC breakdown voltage, kV                     | 1.6                |
| Insulation resistance, $M\Omega$ km          | >5X10 <sup>3</sup> |
| Peak Power, kW                               | 6.4                |
| Screening attenuation, dB                    | >>120              |
| Cut-off frequency, GHz                       | 20.40              |

## Mechanical Specifications

|                              |          |                    |
|------------------------------|----------|--------------------|
| Bending radius, in.          | Single   | 0.78               |
|                              | Repeated | 1.00               |
| Tensile strength, lbs.       |          | 150                |
| Crush resistance, lb/in.     |          | 100                |
| Bending moment, ft lb.       |          | 0.8                |
| Storage Temperature, °F      |          | -94 $\approx$ +185 |
| Installation Temperature, °F |          | -40 $\approx$ +140 |
| Operating Temperature, °F    |          | -67 $\approx$ +185 |



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| Attenuation |           |          |
|-------------|-----------|----------|
| Frequency   | dB/100 ft | dB/100 m |
| 10          | 0.56      | 1.83     |
| 100         | 1.80      | 5.89     |
| 200         | 2.56      | 8.40     |
| 450         | 3.90      | 12.80    |
| 800         | 5.30      | 17.40    |
| 900         | 5.61      | 18.40    |
| 1000        | 5.97      | 19.60    |
| 1500        | 7.09      | 23.26    |
| 1800        | 8.20      | 26.90    |
| 2000        | 8.69      | 28.50    |
| 2300        | 9.36      | 30.72    |
| 3000        | 10.85     | 35.60    |
| 6000        | 16.08     | 52.75    |



| VSWR          |  |       |
|---------------|--|-------|
| 806-960 MHz   |  | ≤1.15 |
| 1700-2400 MHz |  | ≤1.15 |
| 5-3000 MHz    |  | ≤1.25 |

| Available Connectors |                       |
|----------------------|-----------------------|
| Connector Type       | Connector Part Number |
| NM                   | 14S-NM                |
| NF                   | 14S-NF                |
| 7/16 DIN M           | 14S-DM                |
| 7/16 DIN F           | 14S-DF                |
| 4.1/9.5 Male         | 14S-41M               |
| 4.1/9.5 Female       | 14S-41F               |
| 4.3/10 Male          | 14S-43M               |
| 4.3/10 Female        | 14S-43F               |

