



## Corrugated cable 1/2" (Cellflex 1/2" Spiral)



P/N: ST291 994 170 (Cellflex HCF 1/2" CuH-50 AlCu)

### APPLICATION NOTE

The outer conductor of this cable is made up of a corrugated tube (spiral winding). This construction allows perfect shielding and bendability while enabling large bending radius.

The foam dielectric provides excellent loss and low return loss levels.

This cable will be advised for feeder and jumper assemblies in cellular networks as well as applications requiring high performance level on long distances.

The anti-UV LSZH (Low Smoke Zero Halogen) material is also flame retardant and allows this cable to be used for indoor public areas as well as outdoor installations.

## CONSTRUCTION / DIMENSIONS

|                         | Material                     | mm    | Inches |
|-------------------------|------------------------------|-------|--------|
| Center conductor        | Solid AlCC <sup>(1)</sup>    | 3.60  | 0.142  |
| Dielectric              | Foam PE <sup>(2)</sup>       | 8.30  | 0.327  |
| Corrugated inner shield | Spiral copper tube           | 12.30 | 0.484  |
| Outer shield            | -                            | -     | -      |
| Jacket                  | Black LSZH PE <sup>(3)</sup> | 13.50 | 0.531  |

## ELECTRICAL CHARACTERISTICS

|                           |                   |              |
|---------------------------|-------------------|--------------|
| Characteristic impedance  | 50Ω ± 1Ω          |              |
| Operating frequency range | DC - 11.7 GHz     |              |
| Shielding effectiveness   | 110 dB            |              |
| Voltage withstanding      | 5 845 V rms       |              |
| Peak power                | 20.5 kW           |              |
| Capacitance               | 82 pF / m         | 24.8 pF / ft |
| Velocity of propagation   | 82 % (4.1 ns / m) |              |