

## MICROWAVE LOW LOSS ULTRAFLEX COAXIAL CABLE



REF : HY280UF

## SPECIFICATIONS MECANIKES / MECHANICAL SPECIFICATIONS

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| Type de câble / Cable type                      |                              |
| Températures d'utilisation / Temperature range  | -65 °C ~ +165 °C             |
| Rayon de courbure minimum / Minimum bend radius | 25,4 mm (stat) / 50 mm (dyn) |
| Poids / Weight                                  | 120 kg/km                    |

## SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

|                                                  |                    |
|--------------------------------------------------|--------------------|
| Frequence d'utilisation / Frequency range        | DC ~ 18 GHz        |
| Impédance / Impedance                            | 50 Ohms            |
| Capacité / Capacitance                           | 79 pF/m            |
| Vitesse de propagation / Velocity of propagation | 83 %               |
| Efficacité de blindage / Shielding effectiveness | >100 dB (to 18GHz) |
| Retard linéique / Time delay                     | 4 ns/m             |
| Tension d'utilisation / Voltage Withstand        | NA                 |

## CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Conducteur central / Inner conductor            | Stranded SPC wire  |
| Diélectrique / Dielectric                       | Expanded PTFE Tape |
| Tresse de blindage / Inner shield braid         | N/A                |
| Feuillard inter-blindage / Interlayer           | SPC foil           |
| Seconde tresse de blindage / Outer shield braid | SPC Braid          |
| Gaine / Jacket                                  | FEP Ø 7,74 mm      |

## ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

|                                                             |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)                                             | 40    | 1000  | 2000  | 4000  | 6000  | 8000  | 10000 | 12000 | 14000 | 16000 | 18000 |
| Typical attenuation (dB/m)                                  | 0,036 | 0,187 | 0,266 | 0,384 | 0,472 | 0,551 | 0,620 | 0,682 | 0,740 | 0,797 | 0,853 |
| Typical attenuation with VSWR = 1.0 and Temperature = 25 °C |       |       |       |       |       |       |       |       |       |       |       |
| Max power handling (W/cw)                                   | 2000  | 1500  | 1100  | 700   | 600   | 500   | 450   | 400   | 380   | 350   | 340   |

## ATTENUATION (dB/m) / TYPICAL ATTENUATION (dB/m) vs FREQUENCY (MHz)

