

**HIGHLY FLEXIBLE LOW LOSS MICROWAVE COAXIAL CABLE****REF : HY304PUR****SPECIFICATIONS MECANIKES / MECHANICAL SPECIFICATIONS**

|                                                        |                                |
|--------------------------------------------------------|--------------------------------|
| Températures d'utilisation / <i>Temperature range</i>  | -55°C ~ +85 °C                 |
| Rayon de courbure minimum / <i>Minimum bend radius</i> | 31.8 mm (stat) / 63.6 mm (dyn) |
| Poids / <i>Weight</i>                                  | 100 kg/km                      |

**SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS**

|                                                         |             |
|---------------------------------------------------------|-------------|
| Frequence d'utilisation / <i>Frequency range</i>        | DC ~ 18 GHz |
| Impédance / <i>Impedance</i>                            | 50 ±2 Ohms  |
| Capacité / <i>Capacitance</i>                           | 88 pF/m     |
| Vitesse de propagation / <i>Velocity of propagation</i> | 76 %        |
| Efficacité de blindage / <i>Shielding effectiveness</i> | 90 dB (min) |
| Retard linéique / <i>Time delay</i>                     | 4.39 ns/m   |
| Tension d'utilisation / <i>Voltage Withstand</i>        | 2000 Vdc    |

**CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS**

|                                                        |                                 |
|--------------------------------------------------------|---------------------------------|
| Conducteur central / <i>Inner conductor</i>            | Solid SPC wire Ø 1.57 mm        |
| Diélectrique / <i>Dielectric</i>                       | Low Density PTFE Tape Ø 4.70 mm |
| Tresse de blindage / <i>Inner shield braid</i>         | SPC Braid Ø 4.95 mm             |
| Feuillard inter-blindage / <i>Interlayer</i>           | Aluminium Tape Ø 5.08 mm        |
| Seconde tresse de blindage / <i>Outer shield braid</i> | SPC Braid Ø 5.77 mm             |
| Gaine et Couleur / <i>Jacket and Color</i>             | Blue PUR Ø 6.35 mm              |

**ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING**

|                                                                                                                     |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)                                                                                                     | 100   | 400   | 1000  | 2000  | 3000  | 8000  | 10500 | 12000 | 13500 | 16000 | 18000 |
| Typical attenuation (dB/m)                                                                                          | 0,069 | 0,139 | 0,222 | 0,317 | 0,392 | 0,658 | 0,762 | 0,819 | 0,873 | 0,958 | 1,022 |
| Typical attenuation (dB/m) = (0.20810 x √(FMHz)) + (0.00018 x FMHz) ÷ 30.48 with VSWR = 1.0 and Temperature = 25 °C |       |       |       |       |       |       |       |       |       |       |       |
| Max power handling (W/cw)                                                                                           | 3309  | 1635  | 1020  | 710   | 572   | 336   | 297   | 268   | 251   | 227   | 212   |

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