CABLES

# LOW LOSS FLEXIBLE MICROWAVE COAXIAL CABLE

**REF : HY540**

| SPECIFICATIONS MECANIQUES / *MECHANICAL SPECIFICATIONS* | |
|---|---|
| Températures d'utilisation / *Temperature range* | -55 °C ~ +165 °C |
| Rayon de courbure minimum / *Minimum bend radius* | 27 mm (stat) / 54 mm (dyn) |
| Poids / *Weight* | 75 kg/km |

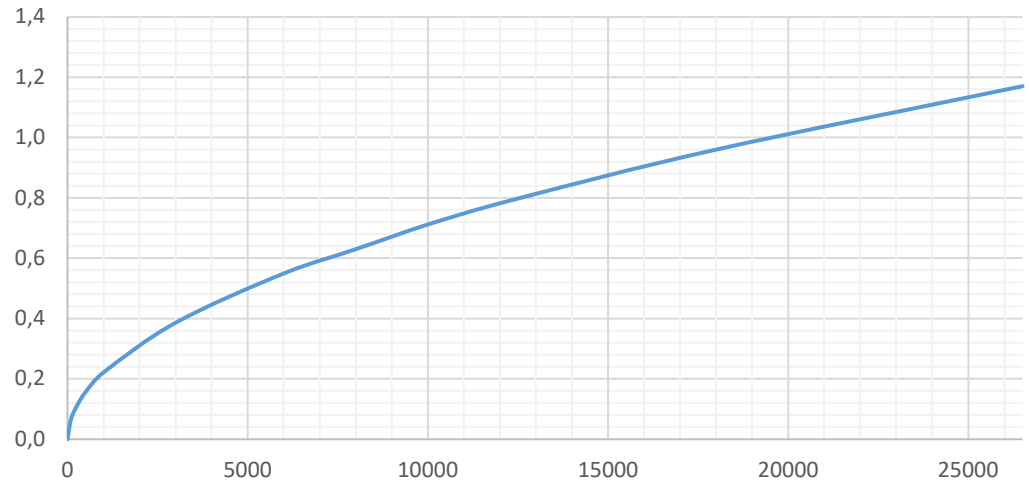
| SPECIFICATIONS ELECTRIQUES / *ELECTRICAL SPECIFICATIONS* | |
|---|---|
| Frequence d'utilisation / *Frequency range* | DC ~ 26,5 GHz |
| Impédance / *Impedance* | 50 Ohms |
| Capacité / *Capacitance* | 80 pF/m |
| Vitesse de propagation / *Velocity of propagation* | 83 % |
| Efficacité de blindage / *Shielding effectiveness* | 90 dB (min) |
| Retard linéique / *Time delay* | 4.02 ns/m |
| Tension d'utilisation / *Voltage Withstand* | 2000 V |

| CONSTRUCTION ET MATERIAUX / *CONSTRUCTION AND MATERIAL SPECIFICATIONS* | |
|---|---|
| Conducteur central / *Inner conductor* | Solid SPC wire Ø 1,60 mm |
| Diélectrique / *Dielectric* | Low Density PTFE Ø 4,35 mm |
| Tresse de blindage / *Inner shield braid* | N/A |
| Feuillard inter-blindage / *Interlayer* | SPC strip Ø 4,55 mm |
| Seconde tresse de blindage / *Outer shield braid* | SPC wire Ø 4,95 mm |
| Gaine / *Jacket* | FEP Ø 5,40 mm |

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

| Frequency (MHz) | 100 | 300 | 500 | 1000 | 3000 | 6000 | 8000 | 10000 | 12400 | 18000 | 26500 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Typical attenuation (dB/m) | 0,070 | 0,120 | 0,157 | 0,222 | 0,387 | 0,550 | 0,630 | 0,712 | 0,795 | 0,960 | 1,171 |
| Typical attenuation (dB/m) = (0,701472 x √(FMHz)) + (0,000110 x FMHz) ÷ 100 with VSWR = 1.0 and Temperature = 25 °C | | | | | | | | | | | |
| Max power handling (W/cw) | 3248 | 1880 | 1455 | 1027 | 591 | 416 | 360 | 321 | 288 | 238 | 196 |

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



Specific parameters

| | |
|---|---|
| Phase Change VS Bending（°/GHz） | ±0.3 |
| Phase Change VS Temperature@（-45~+85）℃ | ≤750 PPM @ -45 / +85°C |