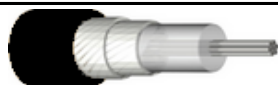


## FLAME RETARDANT FLEXIBLE COAXIAL CABLE



P/N: HY316DEN

## SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| Type de câble / Cable type                      | Double shield RG316 - RD316 |
| Températures d'utilisation / Temperature range  | -40 °C ~ +105 °C            |
| Rayon de courbure minimum / Minimum bend radius | 5 mm (stat) / 30 mm (dyn)   |
| Poids / Weight                                  | 21 kg/km                    |

## SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

|                                                  |             |
|--------------------------------------------------|-------------|
| Frequence d'utilisation / Frequency range        | DC ~ 6 GHz  |
| Impédance / Impedance                            | 50 Ohms     |
| Capacité / Capacitance                           | 94,5 pF/m   |
| Vitesse de propagation / Velocity of propagation | 70 %        |
| Efficacité de blindage / Shielding effectiveness | 60 dB (min) |
| Retard linéique / Time delay                     | 4.8 ns/m    |
| Tension d'utilisation / Voltage Withstand        | 300 Vrms    |

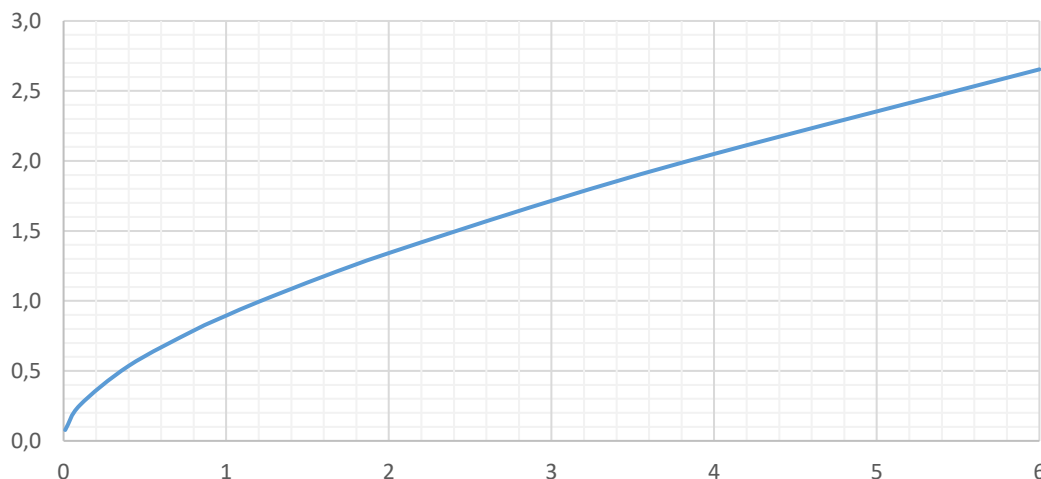
## CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Conducteur central / Inner conductor             | stranded SPCS Ø 0.54 mm |
| Diélectrique / Dielectric                        | PE Ø 1.53 mm            |
| Tresse de blindage / Shield braid                | SPC Ø 1.99 mm           |
| Seconde tresse de blindage / Second shield braid | SPC Ø 2,44 mm           |
| Gaine et Couleur / Jacket and Color              | Black Ø 3,16 mm         |

## ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

|                                                                                                           |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (GHz)                                                                                           | 0,01  | 0,1   | 0,4   | 0,8   | 1     | 1,2   | 1,6   | 2     | 3     | 4     | 6     |
| Typical attenuation (dB/m)                                                                                | 0,078 | 0,255 | 0,536 | 0,788 | 0,895 | 0,994 | 1,176 | 1,342 | 1,715 | 2,050 | 2,654 |
| Typical attenuation (dB/m) = (0.7648 x v(FGHz)) + (0.1301 x FGHz) with VSWR = 1.0 and Temperature = 25 °C |       |       |       |       |       |       |       |       |       |       |       |
| Max power handling (W/cw)                                                                                 | 348   | 246   | 174   | 123   | 110   | 100   | 87    | 78    | 64    | 55    | 45    |
| Max power handling (W/cw) = 110 ÷ v(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level              |       |       |       |       |       |       |       |       |       |       |       |

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



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| SPECIFICATIONS ENVIRONNEMENTALES / ENVIRONMENTAL SPECS |                                   |
|--------------------------------------------------------|-----------------------------------|
| CPR Class                                              | Eca                               |
| Propagation flamme / <i>Flame propagation</i>          | EN60332-1-2                       |
|                                                        | UL1881 1100                       |
|                                                        | EN50305, 9.1.2                    |
|                                                        | FAR 25.869                        |
| Caractéristiques feu / <i>Fire characteristics</i>     | Halogen free IEC60754             |
| Test fumée / <i>Smoke test</i>                         | EN61034-2                         |
| Test vieillissement / <i>Ageing test</i>               | MIL-C-17 4.8.16                   |
| Flexibilité à froid / <i>Cold bend test</i>            | MIL-C-17 4.8.19                   |
| Résistance UV / <i>UV resistance</i>                   | IEC60068-2-5, proc C              |
| VRT / <i>Thermal stress</i>                            | IEC61196-1 10.9                   |
| Résistance abrasion / <i>Abrasion test</i>             | MIL-T-81490 4.7.19 - prod II mod. |