

# RG8 FOAM



| CONSTRUCTION DATA                       |       | Dimension                           | Material    | STRUCTURAL RETURN LOSS (SRL) |                     |
|---|-------|-------------------------------------|-------------|------------------------------|---------------------|
| Inner conductor                         |       | $\Phi = 19 \times 0,30 \pm 0,02$ mm | CuSn        | Frequency [MHz]              | dB                  |
| Dielectric                              |       | $\Phi = 4,0 \pm 0,1$ mm             | Pee         | 30 – 300                     | > 26                |
| Screen                                  | Tape  |                                     |             | 300 – 600                    | > 18                |
|   | Braid | 95 %                                | CuSn        | 600 – 1000                   | > 16                |
|   | Tape  |                                     |             |                              |                     |
| Outer sheath                            |       | $\Phi = 6,15 \pm 0,2$ mm            | PVC         |                              |                     |
| MECHANICAL DATA                         |       |                                     |             | SCREENING EFFICIENCY         |                     |
| Copper content                          |       | kg/km                               | 30,2        | Frequency [MHz]              | Transfer Imp. [TI]  |
| Cable weight                            |       | kg/Km                               | 55,6        | 5 – 30                       | mΩ/m                |
| Min. bending radius (single / multiple) |       | mm                                  | 35/60       | Frequency [MHz]              | Screening Att. [AS] |
| Max. tensile strength                   |       | N                                   | 100         | 30 – 1000                    | dB                  |
| Operating Temperature Range             |       | °C                                  | [-20 ÷ +70] | 1000 – 2000                  | > 55                |
|   |       |                                     |             | 2000 – 3000                  | -----               |
| ELECTRICAL DATA                         |       |                                     |             |                              |                     |
| Impedance [Ω]                           |       | 50 ± 3                              |             |                              |                     |
| Capacitance [pF/m]                      |       | 81 ± 2                              |             |                              |                     |
| Velocity ratio [%]                      |       | 85                                  |             |                              |                     |
| DC resistance (inner/outer) [Ω/km]      |       | 13/10                               |             |                              |                     |
| Voltage insulation sheath [kV]          |       | 3                                   |             |                              |                     |
| ATTENUATION (20°C)                      |       |                                     |             |                              |                     |
| Frequency [MHz]                         |       |                                     | dB/100m     |                              |                     |
| 50                                      |       |                                     | 7,0         |                              |                     |
| 200                                     |       |                                     | 14,6        |                              |                     |
| 300                                     |       |                                     | 18,4        |                              |                     |
| 470                                     |       |                                     | 23,5        |                              |                     |
| 862                                     |       |                                     | 33,0        |                              |                     |
| 1000                                    |       |                                     | 36,0        |                              |                     |

