

## RF 400 Light

Low loss coax, double shielded

LSZH

Corresponding LMR 400

50Ω

### Application

Double shielded 50Ω RF coaxial cable. The cable has a halogen-free and flame-retardant jacket. Field of application communication, data, telecommunications and radio signals. Efficient and practical design for lower cost and easy installation.

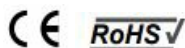


### Construction

|                             |   |
|-----------------------------|---|
| Conductor                   | Solid Copper-clad Al 2,74 [mm]                    |
| Dielectricum                | Cellular PE 7,25 ± 0,18 [mm]                      |
| Fire barrier each conductor | 192 x 0,15 [mm]                                   |
| Screen                      | Al + polyester + Al tape 100 [% optical coverage] |
| Screen 2                    | Tinned Cu-braid 90 [% optical coverage]           |
| Jacket                      | Black Halogen free and flameretardant compound    |
| O.D.                        | 10,30 ± 0,18 [mm]                                 |
| Weight                      | 124 ± 0.5 [kg/km]                                 |

### Specifications

|                               |                   |
|-------------------------------|-------------------|
| Operating temperature normal  | -40 – +75 [°C]    |
| Screen resistance             | 5 [Ω/km]          |
| Impedance at 100MHz           | 50 ± 3 [Ω]        |
| Conductor resistance          | 4,7 [Ω/km]        |
| Test voltage                  | 8,5 [kV]          |
| Capacitance                   | 80 [pF/m]         |
| Velocity factor               | 0,84              |
| Min. bending radius flexible  | 10 [x outer diam] |
| Min. bending radius installed | 5 [x outer diam]  |



|          |         |
|----------|---------|
| Part No. | 1092432 |
|----------|---------|

## Norms

|  |                               |
|--|-------------------------------|
| Halogenfree, max content corrosive and toxic gases | IEC 60754-1 & IEC 60754-2     |
| Design and testing standards                       | IEC 60092-353 IEC 61196-1-100 |
| Flame retardant                                    | IEC 60332-1-2                 |
| Smoke emission                                     | IEC 61034-1 & IEC 61034-2     |

## Attenuation nominal, max 105%

| Frequency MHz | Attenuation dB/100m |
|---------------|---------------------|
| 5             | 0,9                 |
| 10            | 1,2                 |
| 50            | 2,5                 |
| 100           | 3,6                 |
| 200           | 5,3                 |
| 400           | 7,9                 |
| 500           | 9,0                 |
| 600           | 10,0                |
| 800           | 11,7                |
| 1000          | 13,2                |
| 1350          | 15,8                |
| 1500          | 16,6                |
| 1750          | 18,7                |
| 2150          | 20,6                |
| 2250          | 22,6                |
| 2750          | 23,8                |
| 3000          | 25,1                |

## Structural return loss

| MHz         | dB  |
|-------------|-----|
| 30 – 300    | >29 |
| 300 – 600   | >26 |
| 600 – 1000  | >24 |
| 1000 – 2000 | >19 |
| 2000 – 3000 | >18 |

## Screen effectiveness IEC 61196-1

| MHz         | dB   |
|-------------|------|
| 100 – 900   | >95  |
| 900 – 2000  | >85  |
| 2000 – 3000 | > 75 |

## Updated

| Date       | Rev. | Description                  |
|------------|------|------------------------------|
| 29.11.2017 | 1    | Kompletterende tekniske data |