

## RG213 RGFLEX™ Coax Braided Cable

## Product Description

## • RG series

Braided outer coaxial cable (50- and 75-ohm), for general radio station, RF jumper, cable TV, closed-circuit (CCTV) and head-end applications.

Application: OEM jumpers, BTS inter-cabinet connections, GPS lines, Microwave IF cabling



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## Features/Benefits

## Technical Features

## Structure

|                  |  |           |              |
|------------------|--|-----------|--------------|
| Inner conductor: | Stranded Tinned Wire 7x0.75mm (7x0.03in) | [mm (in)] | 2.26 (0.09)  |
| Dielectric:      |  | [mm (in)] | 7.25 (0.29)  |
| Outer conductor: | Tinned copper braid with 96% of coverage | [mm (in)] | 8.11 (0.32)  |
| Jacket:          | Polyvinyl Chloride, PVC                  | [mm (in)] | 10.31 (0.41) |

## Mechanical Properties

|  |                |               |
|--|----------------|---------------|
| Weight, approximately                    | [kg/m (lb/ft)] | 0.155 (0.103) |
| Minimum bending radius, single bending   | [mm (in)]      | 50.0 (1.97)   |
| Minimum bending radius, repeated bending | [mm (in)]      | 205 (8.0)     |
| Bending moment                           | [Nm (lb-ft)]   |               |
| Max. tensile force                       | [N (lb)]       |               |
| Recommended / maximum clamp spacing      | [m (ft)]       |               |

## Electrical Properties

|                               |                   |               |
|-------------------------------|-------------------|---------------|
| Characteristic impedance      | [Ω]               | 50 +/- 2      |
| Relative propagation velocity | [%]               | 66            |
| Capacitance                   | [pF/m (pF/ft)]    | 101 (30.8)    |
| Inductance                    | [μH/m (μH/ft)]    | 0.253 (0.077) |
| Max. operating frequency      | [GHz]             | 2.4           |
| Jacket spark test RMS         | [V]               |               |
| Peak power rating             | [kW]              |               |
| RF Peak voltage rating        | [V]               |               |
| DC-resistance inner conductor | [Ω/km (Ω/1000ft)] | 5.8 (1.76)    |
| DC-resistance outer conductor | [Ω/km (Ω/1000ft)] | 4.1 (1.25)    |

## Recommended Temperature Range

|                          |           |                          |
|--------------------------|-----------|--------------------------|
| Storage temperature      | [°C (°F)] | -50 to +85 (-58 to +185) |
| Installation temperature | [°C (°F)] | -20 to +60 (-4 to +140)  |
| Operation temperature    | [°C (°F)] | -40 to +85 (-40 to +185) |

## Other Characteristics

Fire Performance: Flame Retardant

VSWR Performance: [dB (VSWR)]

Other Options:

| Frequency<br>[ MHz ] | Attenuation |              |
|----------------------|-------------|--------------|
|                      | [ dB/100m ] | [ dB/100ft ] |
| 0.5                  | 0.400       | 0.122        |
| 1.0                  | 0.600       | 0.183        |
| 5.0                  | 1.50        | 0.457        |
| 10                   | 2.0         | 0.610        |
| 20                   | 2.90        | 0.884        |
| 30                   | 3.60        | 1.10         |
| 50                   | 4.60        | 1.40         |
| 88                   | 6.30        | 1.92         |
| 100                  | 6.80        | 2.07         |
| 108                  | 7.10        | 2.16         |
| 150                  | 8.40        | 2.56         |
| 174                  | 9.10        | 2.77         |
| 200                  | 10.2        | 3.11         |
| 300                  | 12.3        | 3.75         |
| 400                  | 14.5        | 4.42         |
| 450                  | 15.5        | 4.72         |
| 500                  | 16.5        | 5.03         |
| 512                  | 16.8        | 5.12         |
| 600                  | 18.4        | 5.61         |
| 700                  | 20.2        | 6.16         |
| 800                  | 23.0        | 7.01         |
| 824                  | 23.5        | 7.16         |
| 894                  | 24.1        | 7.35         |
| 900                  | 24.5        | 7.47         |
| 925                  | 24.9        | 7.59         |
| 960                  | 25.3        | 7.71         |
| 1000                 | 25.8        | 7.86         |
| 1250                 | 29.0        | 8.84         |
| 1500                 | 33.7        | 10.3         |
| 1700                 | 35.2        | 10.7         |
| 1800                 | 39.0        | 11.9         |
| 2000                 | 42.1        | 12.8         |
| 2400                 | 45.3        | 13.8         |

Attenuation at 20°C (68°F) cable temperature