
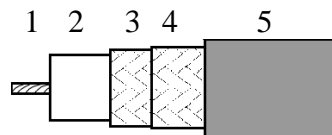


|                                                                                   |                             |         |                   |
|-----------------------------------------------------------------------------------|-----------------------------|---------|-------------------|
|  | <b>TECHNICAL DATA SHEET</b> | code    | <b>MRG214</b>     |
|                                                                                   |                             | version | <b>3</b>          |
|                                                                                   |                             | date    | <b>2015-05-01</b> |
|                                                                                   | <b>COAX RG 214 PVC</b>      | page    | <b>1/2</b>        |

## APPLICATION

Coaxial cables used for Radio-frequency designed according the International Standard IEC 1196.

## CONSTRUCTION




|   |                 |                                             |
|---|-----------------|---------------------------------------------|
| 1 | Inner conductor | 7x0.75 mm stranded silver plated copper     |
| 2 | Dielectric      | Solid PE                                    |
| 3 | Braid layer 1   | Silver plated copper                        |
| 4 | Braid layer 2   | Silver plated copper                        |
| 5 | Sheath          | PVC according the European Standard HD 624. |

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with International Standard IEC 1196.

### Mechanical characteristics

|                                   |                          |
|-----------------------------------|--------------------------|
| 1. Inner conductor                |                          |
| Construction:                     | 7x0.75 mm                |
| Diameter:                         | 2.25 mm ± 0.03 mm        |
| 2. Dielectric                     |                          |
| Diameter:                         | 7.25 mm ± 0.2 mm         |
| 3. Braid layer 1                  |                          |
| Diameter screen:                  | 8.0 mm ± 0.25 mm         |
| Coverage braid:                   | 86% ± 4 %                |
| 4. Braid layer 2                  |                          |
| Diameter screen:                  | 8.7 mm ± 0.25 mm         |
| Coverage braid:                   | 90% ± 4 %                |
| 5. Sheath:                        |                          |
| Diameter:                         | 10.8 mm ± 0.2 mm         |
| Tensile strength:                 | ≥ 12.5 N/mm <sup>2</sup> |
| Elongation at break:              | ≥ 150 %                  |
| Cable:                            |                          |
| Crush resistance of cable:        | < 1% (load of 700N)      |
| Storage/operating temperature:    | -40°C to +70°C           |
| Minimum installation temperature: | -5 °C                    |
| Minimum static bend radius:       | 110 mm                   |

|                                                                                   |                             |         |                   |
|-----------------------------------------------------------------------------------|-----------------------------|---------|-------------------|
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|                                                                                   |                             | date    | <b>2015-05-01</b> |
|                                                                                   | <b>COAX RG 214 PVC</b>      | page    | <b>2/2</b>        |

### Electrical characteristics

|                                |               |                                       |
|--------------------------------|---------------|---------------------------------------|
| Mean characteristic impedance: |               | $50 \pm 2 \Omega$                     |
| DC loop resistance:            |               | $\leq 9.1 \Omega/\text{km}$           |
| DC resistance inner conductor: |               | $\leq 6.0 \Omega/\text{km}$           |
| DC resistance outer conductor: |               | $\leq 3.1 \Omega/\text{km}$           |
| Capacitance:                   |               | $100 \text{ pF/m} \pm 3 \text{ pF/m}$ |
| Velocity ratio:                |               | $0.66 \pm 0.02$                       |
| Insulation resistance:         |               | $> 10^4 \text{ M}\Omega.\text{km}$    |
| Voltage test of dielectric:    |               | 3 kVdc                                |
| Return loss at                 | 100-1000 MHz: | $\geq 23 \text{ dB}$                  |
| Power rating at                | 100 MHz:      | 760 W                                 |
|                                | 1000 MHz:     | 175 W                                 |
| Attenuation at                 | Nominal       |                                       |
|                                | 50 MHz:       | 4.3 dB/100m                           |
|                                | 230 MHz:      | 9.9 dB/100m                           |
|                                | 470 MHz:      | 14.9 dB/100m                          |
|                                | 860 MHz:      | 21.3 dB/100m                          |
|                                | 1000 MHz:     | 23.3 dB/100m                          |

Maximum attenuation is 10% higher.

### REVISIONS

| # | Description                             | Date       | Initials |
|---|-----------------------------------------|------------|----------|
| 2 | Removed SE demand above 1000MHz         | 2010-02-22 | PBo      |
| 3 | Coverage braid layer 1 corrected to 86% | 2015-05-01 | RvN      |
|   |                                         |            |          |



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

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