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|-----------------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| <b>0034246</b>                          | <b>DATA SHEET</b>            |  |
| <b>valid from:</b><br><b>01.01.2019</b> | <b>RGB DY 5 x Kx 0,4/1,8</b> |                                                                                     |

## Application

RGB DY 5 x Kx 0,4/1,8 is a connection cable for high-resolution colour monitors of electronic information systems, PC and CAD user systems and for process visualization in industrial plants with analogue or digital signal transmission. The RGB DY cable contains five coaxial cables for the separate transmission of the red, green and blue colour signal, the separate transmission of synchronization impulses and further functions. The overall screening make this cable particularly suitable for the use in electromagnetically loaded areas.

The cable is resistant against atmospheric UV radiation, it is intended for static laying in dry and damp interiors and outdoor but not for direct burial.

Applicable connectors: D-Sub, D-Sub High-Density, Coaxial-connector style BNC (RG 179 B/U)

## Design

|              |                                                                                       |
|--------------|---------------------------------------------------------------------------------------|
| Conductor    | Inner conductor<br>solid copper wire, Ø nom. 0.4 mm                                   |
| Insulation   | Dielectric<br>cellular-polyethylene, Ø nom. 1.8 mm                                    |
| Stranding    | 5 coaxial cables twisted together<br>wrapping by plastic foil                         |
| Screen       | Outer conductor coaxial cable:<br>tinned copper braiding, coverage ca. 80%            |
| Outer sheath | Overall screening:<br>layer of tinned copper wires with a tinned drain wire           |
|              | Coaxial cable:<br>PVC, Ø 2.75 mm<br>sheath colours: red, green, blue, black and white |
|              | Overall sheath:<br>PVC, black, UV-resistant<br>outer Ø: max. 9.5 mm                   |

## Electrical properties at 20°C

|                          |                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Insulation resistance    | min 5 GΩ x km                                                                                                                                                                   |
| Mutual capacitance       | 60 nF/km                                                                                                                                                                        |
| Characteristic impedance | 75 Ω                                                                                                                                                                            |
| Attenuation              | max. 2 dB/100 m (1 MHz)<br>max. 4.8 dB/100 m (5 MHz)<br>max. 6.9 dB/100 m (10 MHz)<br>max. 14.6 dB/100 m (50 MHz)<br>max. 20.5 dB/100 m (100 MHz)<br>max. 29 dB/100 m (200 MHz) |
| Velocity of propagation  | 81 %                                                                                                                                                                            |

## Mechanical and thermal properties

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | static: 135 mm                                                                                                          |
| Temperature range      | moved: -10°C up to 70°C<br>static: -20°C up to 80°C                                                                     |
| Burning load           | 0.31 kWh/m                                                                                                              |
| Flammability           | flame retardant acc. to IEC 60332-1-2                                                                                   |
| General requirements   | This cable is conform to the EU-Directive 2011/65/EU<br>(RoHS, Restriction of the use of certain hazardous substances). |

AbN  
automation

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