


|   |                               |   |
|---|-------------------------------|---|
| <b>0034247</b>                          | <b>DATA SHEET</b>             |  |
| <b>valid from:</b><br><b>01.01.2019</b> | <b>RGB-FD 3 x Kx 0,6L/2,4</b> |   |

## Application

RGB-FD 3 x Kx 0,6L/2,4 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. The cable contains three coaxial cables for the separate transmission of the red, green and blue colour signal. They have low attenuation and allow large transmission lengths. The cable is intended for high flexible application in power chains, on permanently moving machines. The PUR sheath is very resistant against mineral oils and abrasion. Applicable connectors: D-Sub connector, Coaxial-connector style BNC

## Design

|              |   |
|--------------|---|
| Conductor    | Inner conductor<br>stranded bare copper wires, 19 x 0.1 mm  |
| Insulation   | Dielectric<br>cellular-polyethylene, Ø nom. 2.4 mm  |
| Stranding    | 3 coaxial cables twisted together   |
| Screen       | Outer conductor coaxial cable:<br>bare copper braiding  |
| Outer sheath | Coaxial cable:<br>PVC, Ø 3.7 mm<br>sheath colours: red, green, blue<br><br>Overall sheath:<br>PUR, grey (RAL 7001)<br>outer Ø: max. 10.5 mm |

## Electrical properties at 20°C

|                          |  |
|--------------------------|--|
| Mutual capacitance       | 60 nF/km   |
| Characteristic impedance | 75 Ω   |
| Attenuation              | max. 1.7 dB/100 m (1 MHz)<br>max. 5.4 dB/100 m (10 MHz)<br>max. 11.9 dB/100 m (50 MHz)<br>max. 17.0 dB/100 m (100 MHz)<br>max. 25.0 dB/100 m (200 MHz) |
| Velocity of propagation  | 81 %   |

## Mechanical and thermal properties

|                        |   |
|------------------------|---|
| Minimum bending radius | moved: 15 x cable Ø<br>static: 7,5 x cable Ø  |
| Temperature range      | moved: -10°C up to 70°C<br>static: -20°C up to 80°C   |
| Burning load           | 0.43 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

|                      |                       |             |
|----------------------|-----------------------|-------------|
| Creator: PESA / PDC  | Document: DB0034247EN | Page 1 of 1 |
| Released: ALTE / PDC | Version: 04           |             |