


| | | |
|---------------------------|---|---|
| 0034245 | DATA SHEET |  |
| valid from: 01.01.2019 | RGB CY 3 x Kx 0,4/1,8 + 3 x 0,25 | |

Application

RGB CY 3 x Kx 0,4/1,8 + 3 x 0,25 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 RGB CY cable contains three coaxial cables for the separate transmission of the red, green and blue colour signal. For the separate transmission of synchronization impulses or additional control functions the three cores may be used. The overall screening of the copper braiding make this cable particularly suitable for the use in electromagnetically loaded areas. The cable is intended for static laying in dry and damp interiors and outdoors but not for direct burial.

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

Design

| | |
|--------------------------|---|
| Conductor | Coaxial cable inner diameter: Inner conductor bare copper wire, massive, \varnothing ca. 0.4 mm |
| | Control cores: bare copper wire, fine-wire stranded, ca. 0.25 mm ² |
| Insulation | Coaxial cable dielectric: Cellular PE, \varnothing ca. 1.8 mm |
| | Control cores insulation: Insulation PVC, wall-thickness ca. 0.3 mm, \varnothing ca. 1.3 mm |
| Core identification code | Control cores: colors: white, brown, green (acc. to VDE 47 100) |
| Stranding | Three coaxial cables with three control cable as fillers twisted together Wrapping with plastic foil |
| Screen | braid of tinned copper wire, tinned drain wire ca. 0.22 mm ² |
| Outer sheath | PVC, black, wall-thickness ca. 0.8 mm, outer \varnothing : max. 8.0 mm |

Electrical properties at 20°C

| | |
|-----------------------------|---|
| Conductor resistance | Control cores: max. 79 Ω /km |
| Insulation resistance | Coaxial cable: min. 5 G Ω xkm |
| Specific volume resistivity | Control cores: min. 20 M Ω xkm |
| Mutual capacitance | Coaxial cable: ca. 60 nF/km |
| Characteristic impedance | Coaxial cable: ca. 75 Ω |
| Attenuation | Coaxial cable: 1 MHz: max. 2 dB/100 m 5 MHz: max. 4.8 dB/100 m 10 MHz: max. 6.9 dB/100 m 50 MHz: max. 14.6 dB/100 m 100 MHz: max. 20.5 dB/100 m 200 MHz: max. 29 dB/100 m |
| Velocity of propagation | Coaxial cable: ca. 81 % |

Mechanical and thermal properties

| | |
|------------------------|---|
| Minimum bending radius | static: 120 mm |
| Temperature range | static: -5° C up to +50° C moved: -20° C up to +80° C |
| Burning load | 0.23 kWh/m |
| Flammability | flame retardant acc. to IEC 60332-1-2 |
| General requirements | This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). |

| | | |
|----------------------|-----------------------|-------------|
| Creator: PESA / PDC | Document: DB0034245EN | Page 1 of 1 |
| Released: ALTE / PDC | Version: 07 | |