


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

## 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
Insulation	Control cores: bare copper wire, fine-wire stranded, ca. 0.25 mm <sup>2</sup> Coaxial cable dielectric: Cellular PE, $\varnothing$ ca. 1.8 mm
Core identification code	Control cores insulation: Insulation PVC, wall-thickness ca. 0.3 mm, $\varnothing$ ca. 1.3 mm
Stranding	Control cores: colors: white, brown, green (acc. to VDE 47 100) 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 <sup>2</sup>
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 $\Omega$ /km
Insulation resistance	Coaxial cable: min. 5 G $\Omega$ xkm
Specific volume resistivity	Control cores: min. 20 M $\Omega$ xkm
Mutual capacitance	Coaxial cable: ca. 60 nF/km
Characteristic impedance	Coaxial cable: ca. 75 $\Omega$
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).

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