

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

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 stranded bare copper wires, 19 x 0.1 mm
Insulation	Dielectric cellular-polyethylene, Ø nom. 2.4 mm
Stranding	3 coaxial cables twisted together
Screen	Outer conductor coaxial cable: bare copper braiding
Outer sheath	Coaxial cable: PVC, Ø 3.7 mm sheath colours: red, green, blue Overall sheath: PUR, grey (RAL 7001) 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) max. 5.4 dB/100 m (10 MHz) max. 11.9 dB/100 m (50 MHz) max. 17.0 dB/100 m (100 MHz) max. 25.0 dB/100 m (200 MHz)
Velocity of propagation	81 %

Mechanical and thermal properties

Minimum bending radius	moved: 15 x cable Ø static: 7,5 x cable Ø
Temperature range	moved: -10°C up to 70°C 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 (RoHS, Restriction of the use of certain hazardous substances).

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