

UNITRONIC® BUS PB HEAT 180 1x2x0,64

DB3031981
valid from: 25.03.2013

Application

High temperature PROFIBUS data-cable for fixed installation up to 180 °C. The cable is oil and sunlight resistant.

Design

Conductor	bare copper wire, ca. 0.64 mm ϕ
Insulation	foamed flouroethylene, core ϕ ca. 2.55 mm
Core identification code	a-core red, b-core green
Stranding	2 cores stranded together with fillers
Screening	aluminized foil <u>on top:</u> braid of tinned copper wires, coverage ca. 60 %
Outer sheath	perfluoroethylenepropylene (FEP), violet, outer ϕ : ca. 7.2 mm

Electrical properties at 20° C

Resistance (loop)	max. 110 Ω /km
Insulation resistance	min. 16 G Ω xkm
Mutual capacitance	ca. 28 nF/km
Characteristic impedance	9.6 kHz: 270 Ω \pm 27 Ω 38.4 kHz: 185 Ω \pm 18.5 Ω 3 up to 20 Mhz: 150 Ω \pm 15 Ω
Line attenuation	9.6 kHz: max. 0.25 dB/100 m 38.4 kHz: max. 0.4 dB/100 m 4 MHz: max. 2.2 dB/100 m 16 MHz: max. 4.2 dB/100 m
Operating voltage (rms-value)	max. 250 V
Test voltage (DC, 3 sec)	3600 V

Mechanical and thermal properties

Minimum bending radius	repeated: 7 x outer diameter single: 5 x outer diameter
Permissible temperature range	-50 °C up to +180 °C
General requirements	Dangerous and forbidden substances acc. to RoHS directive 2011/65/EU regarding Restriction of the use of certain hazardous substances (RoHS) are not allowed to the manufacturing.