



K-FLEX 3500 EB CY

Description : EMC-compliant, data and control cables for installation of intrinsically safe circuits, where a special cable marking for hazard area type "i"- intrinsic safety is specified. According to DIN EN 60079-14 Section 12.2.2 (VDE 0165 Part 1)

Design:



Construction : Flexible bare copper conductors according to CEI 20-29 Class 5 and DIN-VDE 0295 K5
PVC Insulation compound type TI1 according to CEI 20-11 and VDE 0207
Black numbered conductors with or without green yellow core
Polyester tape
Tinned copper screen with coverage 85%
Outer jacket in PVC TM2 according to CEI 20-11 and VDE 0207 - Blue 5015

Manufacturing's Controls: Test and Control according to our certificated **ISO 9001-2015 CSQ-IMQ (EQ-NET)** Quality System procedure.
Labor tests reports are stored in our internal Q.C. laboratory archive together with the production reports

Norms: Flame retardant, Test method B according to IEC 60332-1
Adapted to DIN VDE 0245 and 0281
According with DIN EN 60079-14 Section 12.2.2 (VDE 0165 Part 1) - Electrical characteristics and marking of wires and cables
The cable is conform to Low Voltage Directive (LVD) 2014/35/EC CE

Technical dates :

- Nominal voltage : < 50 V AC or < 75 V DC
- Spark Test voltage : 3000 V
- Mutual capacitance : Core/core approx. 110 nF/km
- Inductivity : approx. 0.65 mH/km
- Working temperature : Occasional flexing: -5°C to +70°C
Fixed installation: -40°C to +80°C
- Minimum bending radius : Occasional flexing: 15 x outer Ø
Fixed installation: 4 x outer Ø

Use : The control cable K-FLEX 3500 CY EB is particularly used for the installation of intrinsically safe circuits, where a special marking of hazard type "i" (intrinsically safe) cables is specified. It's suitable for measuring, monitoring and in the machine tool manufacturing plant engineering, heating and air conditioning systems, refrigeration plants, and installations for data processing. The cable is used at light mechanical stress. It is suitable for free, not continuously moving appliance without tensile load or compulsory guidance as well as for fixed laying.