



DATA SHEET	300xxxx
ZERO-FLAME MULTI CORE CABLES	valid from : 01.07.2002

Application

ZERO-FLAME cables protect electric circuits at extremely dangerous locations, e.g. blast furnaces, coke mills, oil refineries, glassworks, aluminium- and steel works etc. The maximum admissible temperature is thereby up to +1565 °C (short-time). The outstanding heat-proved quality and flame resistance guarantee the function even at contact with melted metal or glass.

Design

The structure and the dimensions of the ZERO-FLAME multi core cables are in acc. with following regulations:

Conductor	inoxidizable nickel-plated copper fine wire strand in acc. with IEC 60228, class 5
Core insulation	Layers of MICA-tape + PTFE impregnated fibre glass braiding
Core identification	cables with 2 cores - black, blue cables with 4 cores – black, blue, yellow, red
Make up	cores twisted with fillers together, layers of MICA-tapes
Sheath insulation	Braiding of PTFE impregnated glass fibre colour red

Electrical properties at 20° C

Working voltage	600 V
Test voltage	2200 V

Mechanical and thermal properties

Temperature range	-196°C up to +400°C (peak 1565°C)
Minimum bending radius	static 5 x cable diameter flexing at max. 260°C 10 x cable diameter
EC directive	This cable confirms to ECD 73/23/EEC (low voltage directive)

elaborated by: TE-K:	Document: DB30020808_2EN	page 1 of 1
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