



DATA SHEET	0012620
UNITRONIC® EB CY (TP)	valid from: 06.02.2009

APPLICATION

UNITRONIC® EB CY (TP) is a flexible data cable with a blue outer sheath for intrinsically safe circuits for use in explosive areas.

The cable meets the requirements of VDE 0165 part 1 where a special marking for cables of hazard type -i- (intrinsically safe) is specified.

These cables are not allowed to use for other purposes than hazardous (explosive) areas.

Cables with blue outer sheath should only be used if no confusion with intrinsically safe circuits is possible.

UNITRONIC® EB CY (TP) is highly resistant against acids, lyes and certain oils at room temperature.

The cores of UNITRONIC® EB CY (TP) are twisted into pairs in order to uncouple the conductor circuits and to protect them from the external capacitive interference.

CABLE MAKE UP

Conductor	fine wire strands of bare copper wire
Core	special PVC-based core insulation
Core ident code	core identification according to DIN 47100
Stranding	cores are stranded to pairs, pairs are stranded in layers
Taping	wrapping with plastic foil
Screen	screen of tinned copper wire
Outer sheath	outer sheath of special PVC-based compound
Colour	colour blue, RAL 5015

TECHNICAL DATA

Specific insulation resistance	GΩ x cm	>20
Mutual capacitance at 800 Hz	nF/km	approx. 120
Inductance	mH/km	approx. 0.65
Capacitive coupling k	pF/100 m	approx. 300
Operating peak voltage (not for purposes of power)	V	900
Test voltage	V	2500
Flame propagation	flame retardant in acc.	IEC 60332-1-2
Minimum bending radius for flexing use static	cable Ø x	15 6
Temperature range flexing	°C	-5° up to +70°
static	°C	-30° up to +80°
Design and el. properties	similar to	VDE 0812

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