



## Features

- Circuit integrity cable
- Superior flame retardance
- Excellent wet electrical properties
- Enhanced mechanical toughness
- Wide temperature range -25°C to 90°C
- Thermoset insulation
- Oil resistant
- Low smoke
- Halogen free
- Voltage rating 450/750V
- Sunlight resistant
- Ampacity follows BS 7671:2008 table 4E1A

## Performance Standards

- Passes BS 6853 Annex B for toxic fumes
- Satisfies performance requirements of LUL 1-085 A3:2011 for flammability, smoke emission and toxic fumes
- Satisfies performance requirements of LUL S1085 A4:2015 for flammability, smoke emission and toxic fumes
- Satisfies performance requirements of BS-7211:2012 for EI5 insulation type
- Satisfies flame and smoke requirements of NFPA 130 & 502
- Passes requirements of BS 6387 categories C, W & Z
- Passes IEC 60331-3 120 min resistance to fire and impact
- Passes EN 50200 120 min resistance to fire and mechanical shock
- Passes EN 61034-2 smoke emission
- Passes IEC 60332-3-25 and IEC 60332-3-24
- Satisfies IEC 60754-1 acid gas and IEC 60754-2 pH and conductivity

## Construction

**Conductor:** Bare copper per IEC 60228, Class 2

**Flame Barrier:** Mica tape

**Insulation:** Crosslinked low smoke halogen free polymer (Colours – as required)

\*Rated 90 °C for normal operation, 130° C for emergency overload conditions and 250 °C for short circuit conditions

## Scope

Exane<sup>®</sup> CircuitSAFE employs a rugged thermoset low smoke halogen free insulation compound. The thermoset insulation provides superior resistance to fire and moisture. It may be installed in wet or dry locations, indoors and outdoors. The cable maintains circuit integrity and operates under fire conditions.

Exane<sup>®</sup> CircuitSAFE's small, lightweight construction makes it perfect for installation in metal trays, conduits, ducts or in direct burial applications. Exane<sup>®</sup> CircuitSAFE is an ideal cable for power, control and instrumentation circuits in transit systems and tunnels.

# Exane® CircuitSAFE Emergency Circuit Cable



Low Smoke Halogen Free 90°C  
450/750 Volt  
LUL 1-085  
NFPA 130 & 502  
BS 7211-2012  
BS 6387 C, W & Z  
CE

Prefix	Part Number			Conductor mm <sup>2</sup>	Conductor Diameter Nom. mm	Radial Wall Thickness mm	Nom. Cable Diameter mm	Conductor Resistance** Ohms/km	Weight kg/km
	Blue	Brown	Green/ Yellow						
EP01075	-200	-201	-205	0.75*	1.12	0.60	3.08	24.8	18
EP01001	-200	-201	-205	1*	1.27	0.60	3.23	18.2	21
EP01015	-200	-201	-205	1.5	1.55	0.70	3.71	12.2	30
EP01025	-200	-201	-205	2.5	1.96	0.80	4.32	7.56	42
EP01004	-200	-201	-205	4	2.49	0.80	4.85	4.7	60
EP01006	-200	-201	-205	6	3.05	0.80	5.41	3.11	81
EP01010	-200	-201	-205	10	3.92	1.00	6.74	1.84	131
EP01016	-200	-201	-205	16	4.96	1.00	7.77	1.16	195
EP01025	-250	-251	-255	25	6.40	1.20	9.61	0.73	294
EP01035	-200	-201	-205	35	7.34	1.20	10.86	0.53	396
EP01050	-200	-201	-205	50	8.89	1.40	12.86	0.39	561
EP01070	-200	-201	-205	70	10.52	1.40	14.48	0.27	761
EP01095	-200	-201	-205	95	12.24	1.60	16.61	0.20	1,027
EP01120	-200	-201	-205	120	13.79	1.60	18.16	0.154	1,245
EP01150	-200	-201	-205	150	15.42	1.80	20.24	0.126	1,555
EP01185	-200	-201	-205	185	17.12	2.00	22.34	0.10	1,913
EP01240	-200	-201	-205	240	19.51	2.20	25.13	0.076	2,467
EP01300	-200	-201	-205	300	21.84	2.40	27.91	0.0607	3,061
EP01400	-200	-201	-205	400	25.23	2.60	31.75	0.0475	4,044

\* .75-1 mm<sup>2</sup> Rated 300/500 Volt per BS 7211:2012

\*\* According to IEC 60228