

Features

- Superior flame retardance and LSZH construction
- Wide temperature range -25°C to 90°C
- Thermoset LSZH Insulation, Thermoplastic LSZH jacket
- Voltage Rating 450/750V for 1.5 mm² and larger
- Voltage Rating 300/500V for 1 mm² and smaller
- Sunlight Resistance, oil and moisture resistant
- Ampacity follows BS 7671:2008 table 4E2A

Performance Standards

- The insulation satisfies the requirements for BS 6853:1999
- The insulation satisfies performance requirements of BS7211:1998 and BS7211:2012 for E15 insulation type per BS EN 50363-5 (2005)
- The insulation and jacket satisfy the performance requirements of IEC 60754-1 — Halogen Acid Gas content
- The insulation and jacket satisfies the performance requirements of IEC 60754-2 — Acidity and Conductivity
- Satisfies performance requirements of LUL S1085 A4:2015 for flammability, smoke emissions and toxic fumes
- Satisfies performance requirements of LUL 1-085 A3:2011 for flammability, smoke emission and toxic fumes
- Cable meets HCl < 0.5% per BS EN 50267-2-1 Halogen Acid gas
- Satisfies flame and smoke requirements of NFPA 130 & 502, passes UL1685 with FT4/IEEE 1202 flame method
- Passes IEC 60332-3-25 and IEC 60332-3-24 vertical flame test
- Jacket type LTS 4 per BS 7655 6.1
- Meets the flame propagation test EN 60332-3-24 2009
- Meets the smoke emission of IEC 61034-2
- Cable construction in accordance with BS 7211 2012

Construction

- **Conductor:** Bare copper per IEC 60228, Class 2
- **Insulation:** Crosslinked low smoke halogen free polymer*
- **Binder tape:** Helically applied polyester
- **Jacket:** Thermoplastic low smoke halogen free.

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

Scope

Exane[®] PC Multi-Core is a tray cable that is designed for installations in transit systems, tunnels and premises infrastructure. The cable employs a rugged thermoset low smoke halogen free insulation and low smoke halogen free jacket. Exane PC Multi-Core may be installed in tray, duct, or conduit.

Exane[®] PC Multi-Core Premises Cable

Table 0.75 mm² Multi Conductor, 300/500V

Part Number	Number of Conductors	Conductor Stranding	Conductor Size (mm)	Insulation Wall (mm)	Jacket Wall (mm)	Overall Size (mm)	Max DCR (Ohms/km) @ 20°C	Weight (kg/km)	Bend Radius (Installed/During Installation) mm	Color Code
EP04075-000	4	7/369 mm	1.11	0.6	1.2	8.2	18.56	66	32/64	Brown/Black/ Grey/Gn-Yw

Table 1 mm² Multi Conductor, 300/500V

Part Number	Number of Conductors	Conductor Stranding	Conductor Size (mm)	Insulation Wall (mm)	Jacket Wall (mm)	Overall Size (mm)	Max DCR (Ohms/km) @ 20°C	Weight (kg/km)	Bend Radius (Installed/During Installation) mm	Color Code
EP07001-000	7	7/426 mm	1.27	0.6	1.2	10.2	18.56	95	41/82	6 Black numbered and a Gn-Yw
EP13001-001	13	7/426 mm	1.27	0.6	1.6	14.65	18.56	315	117/176	13 Black numbered
EP25001-000	25	7/426 mm	1.27	0.6	1.6	18.51	18.56	538	220/300	24 Black numbered and a Gn-Yw

Table 1.5 mm² Multi Conductor, 450/750V

Part Number	Number of Conductors	Conductor Stranding	Conductor Size (mm)	Insulation Wall (mm)	Jacket Wall (mm)	Overall Size (mm)	Max DCR (Ohms/km) @ 20°C	Weight (kg/km)	Bend Radius (Installed/During Installation) mm	Color Code
EP02015-000	2	7/522 mm	1.57	0.7	1.2	8.5	12.44	95	34/68	Brown/Blue
EP03015-000	3	7/522 mm	1.57	0.7	1.2	9.0	12.44	122	36/72	Brown/Blue/ Gn-Yw
EP04015-000	4	7/522 mm	1.57	0.7	1.2	9.8	12.44	147	39/78	Brown/Black/ Grey/Gn-Yw
EP05015-000	5	7/522 mm	1.57	0.7	1.2	10.7	12.44	177	43/86	Brown/Blue/ Black/Grey/ Gn-Yw
EP07015-000	7	7/522 mm	1.57	0.7	1.2	11.6	12.44	230	46/92	6 Black numbered and a Gn-Yw
EP10015-000	10	7/522 mm	1.57	0.7	1.6	15.4	12.44	349	123/184	9 Black numbered and a Gn-Yw
EP12015-000	12	7/522 mm	1.57	0.7	1.6	15.8	12.44	400	126/189	11 Black numbered and a Gn-Yw

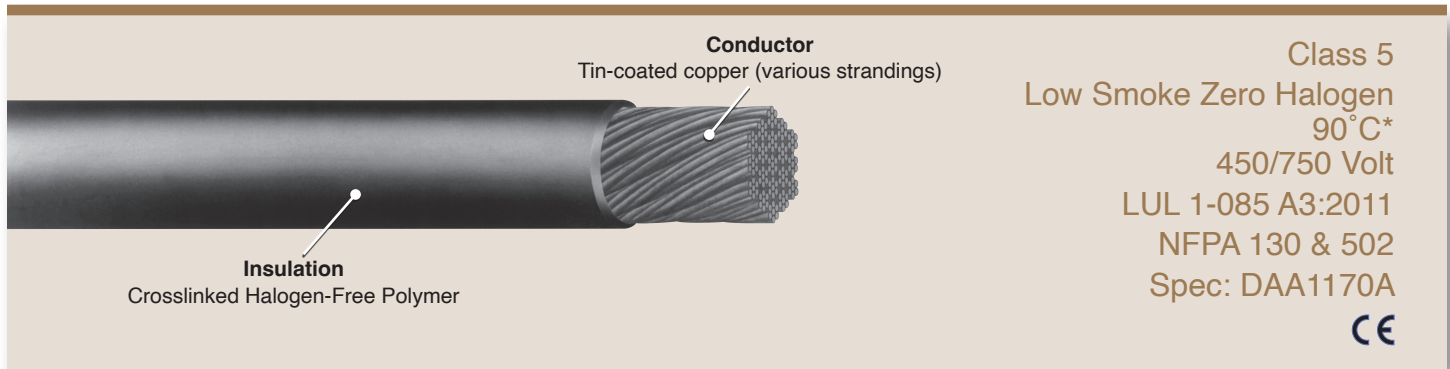
Table 2.5 mm² Multi Conductor, 450/750V

Part Number	Number of Conductors	Conductor Stranding	Conductor Size (mm)	Insulation Wall (mm)	Jacket Wall (mm)	Overall Size (mm)	Max DCR (Ohms/km) @ 20°C	Weight (kg/km)	Bend Radius (Installed/During Installation) mm	Color Code
EP02025-000	2	7/674 mm	1.95	0.8	1.2	9.8	7.71	128	39/78	Brown/Blue
EP03025-000	3	7/674 mm	1.95	0.8	1.2	10.4	7.71	167	42/84	Brown/Blue/ Gn-Yw
EP04025-000	4	7/674 mm	1.95	0.8	1.2	11.3	7.71	210	45/90	Brown/Black/ Grey/Gn-Yw
EP05025-000	5	7/674 mm	1.95	0.8	1.2	12.3	7.71	253	49/98	Brown/Blue/ Black/Grey/ Gn-Yw
EP07025-000	7	7/674 mm	1.95	0.8	1.6	14.2	7.71	360	57/114	6 Black numbered and a Gn-Yw
EP10025-000	10	7/674 mm	1.95	0.8	1.6	17.8	7.71	502	142/213	9 Black numbered and a Gn-Yw
EP12025-000	12	7/674 mm	1.95	0.8	1.6	18.4	7.71	595	147/220	11 Black numbered and a Gn-Yw

Table 4.0 mm² Multi Conductor, 450/750V

Part Number	Number of Conductors	Conductor Stranding	Conductor Size (mm)	Insulation Wall (mm)	Jacket Wall (mm)	Overall Size (mm)	Max DCR (Ohms/km) @ 20°C	Weight (kg/km)	Bend Radius (Installed/During Installation) mm	Color Code
EP03004-000	3	7/853 mm	2.48	0.8	1.2	11.5	5.07	226	46/92	Brown/Blue/ Gn-Yw
EP04004-000	4	7/853 mm	2.48	0.8	1.2	12.6	5.07	286	50/100	Brown/Black/ Grey/Gn-Yw
EP05004-000	5	7/853 mm	2.48	0.8	1.2	13.8	5.07	356	55/110	Brown/Blue/ Black/Grey/ Gn-Yw

Note: additional sizes, configurations or color codes can be made to order.



Features

- Superior Flame Retardance
- Excellent wet electrical properties
- Enhanced Mechanical toughness
- Wide temperature range -25°C to 90°C
- Thermoset Insulation
- Oil resistant
- Low Smoke
- Zero Halogen
- Voltage Rating 450/750V
- The insulation meets the IR and thickness requirement of UL 44 for type XHHW-2, 600V AC conductor-earth or 1031V AC conductor-conductor
- Ampacity follows BS 7671:2008 table 4E1A

Performance Standards

- Satisfies the requirements for BS 6853:1999
- Satisfies performance requirements of LUL S1085 A4:2015 for flammability, smoke emissions and toxic fumes
- Satisfies performance requirements of LUL 1-085 A3:2011 for flammability, smoke emissions and toxic fumes
- Satisfies performance requirements of BS7211:1998
- Satisfies performance requirements of IEC 60754-1
- Satisfies performance requirements of IEC 60754-2
- Satisfies flame and smoke requirements of NFPA 130 & 502

Construction

Conductor: Annealed, tinned copper per IEC 60228, Class 5/BS6360

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

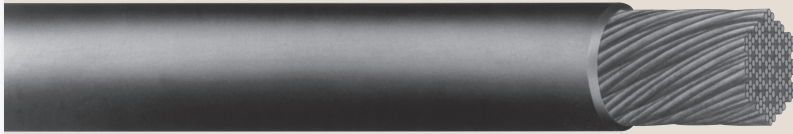
*Rated 90°C for normal operation, 130° C for emergency overload conditions and 250°C for short circuit conditions

Scope

Exane[®] PC 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.

Exane[®] PC small, lightweight construction makes it perfect for installation in metal trays, conduits, ducts or in direct burial applications. Exane[®] PC is an ideal cable for power, control and instrumentation circuits in transit systems and tunnels.

Exane[®] PC Premises Cable

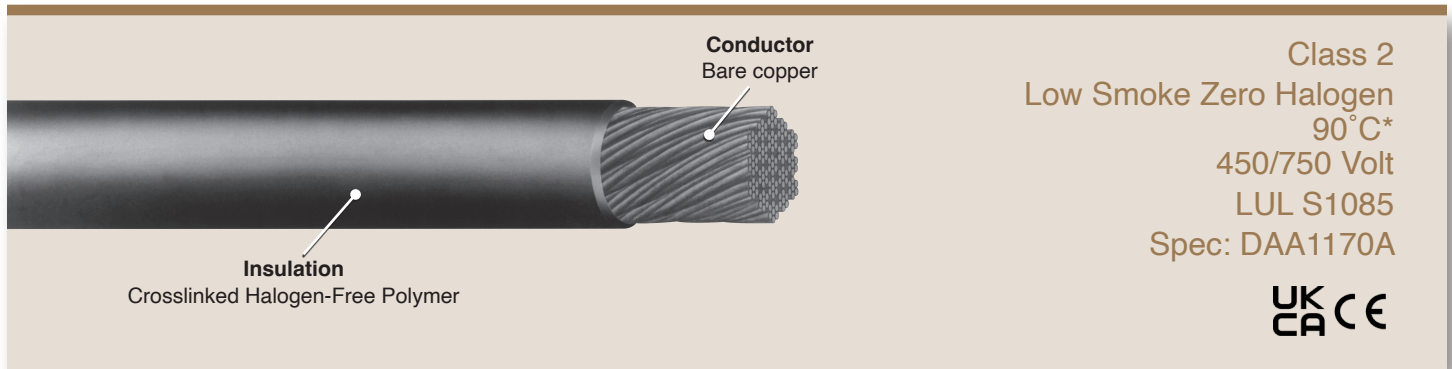


Class 5
Low Smoke Zero Halogen
90°C*
450/750 Volt
LUL 1-085 A3:2011
NFPA 130 & 502
Spec: DAA1170A

Conductor mm ²	Conductor Diameter Nom. mm	Radial Wall Thickness mm	Nominal Cable Diameter mm	Conductor Resistance** (Ohms/km)	Weight kg/km
0.75*	1.14	0.60	2.41	26.7	13.7
1*	1.22	0.60	2.49	19.99	17.3
1.5	1.52	0.70	2.99	13.69	25.0
2.5	1.93	0.80	3.60	7.6	38.7
4	2.45	0.80	4.11	5.08	58.1
6	3.30	0.80	4.97	3.38	73.6
10	3.98	1.00	6.07	1.94	120.9
16	5.20	1.00	7.31	1.15	175
25	6.55	1.20	9.04	0.727	279
35	8.25	1.20	10.80	0.564	382
50	10.59	1.40	13.41	0.393	551
70	11.68	1.40	14.68	0.276	764
95	13.34	1.60	16.73	0.21	1095
120	15.31	1.60	18.59	0.164	1259
150	16.50	1.80	20.37	0.132	1528
185	19.05	2.00	23.16	0.0991	1944
240	21.59	2.20	26.11	0.0754	2399
300	24.64	2.40	29.58	0.0601	3059
400	27.18	2.60	32.47	0.0470	3883

* .75-1 mm² Rated 300/500 Volt per BS 7211:1998

** According to IEC 60228



Features

- Superior Flame Retardance
- Excellent wet electrical properties
- Enhanced Mechanical toughness
- Wide temperature range -25°C to 90°C
- Thermoset Insulation
- Oil resistant
- Low Smoke
- Zero Halogen
- Voltage Rating 450/750V
- Sunlight Resistance
- UKCA / CE Euroclass up to B2ca,s1a,d0,a1
- Ampacity follows BS 7671:2008 table 4E1A

Performance Standards

- Satisfies the requirements for BS 6853:1999
- Satisfies performance requirements of LUL S1085 A4:2015 for flammability, smoke emissions and toxic fumes
- Satisfies performance requirements of LUL 1-085 A3:2011 for flammability, smoke emission and toxic fumes
- Satisfies performance requirements of BS7211:1998 and BS7211:2012 for EI5 insulation type
- Satisfies performance requirements of IEC 60754-1
- Satisfies performance requirements of IEC 60754-2
- Satisfies flame and smoke requirements of NFPA 130 & 502
- Passes EN61034-2 smoke emission
- Passes IEC 60332-3-25 and IEC 60332-3-24

Construction

Conductor: Bare copper per IEC 60228, Class 2

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

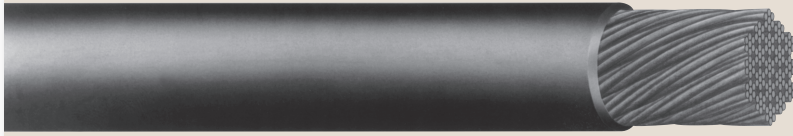
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Exane[®] PC Premises Cable



Class 2
Low Smoke Zero Halogen
90°C*
450/750 Volt
LUL S1085
Spec: DAA1170A



Conductor mm ²	Conductor Diameter Nom. mm	Radial Wall Thickness mm	Nominal Cable Diameter mm	Conductor Resistance** (Ohms/km)	Weight kg/km
1.5	1.55	0.70	3.02	12.1	22.4
2.5	1.96	0.80	3.63	7.41	34.7
4	2.48	0.80	4.16	4.61	50.7
6	3.04	0.80	4.73	3.08	70.8
10	3.92	1.00	6.02	1.83	119.3
16	4.95	1.00	7.04	1.15	180
25	6.40	1.20	8.89	0.734	280
35	7.34	1.20	9.77	0.524	378
50	8.89	1.40	11.78	0.387	596
70	10.50	1.40	13.46	0.268	733
95	12.24	1.60	15.64	0.193	992
120	13.80	1.60	17.14	0.153	1231
150	15.43	1.80	19.18	0.124	1540
185	17.13	2.00	21.33	0.0991	1900
240	19.50	2.20	24.18	0.0754	2446
300	21.84	2.40	26.92	0.0601	3053
400	25.22	2.60	30.65	0.0470	4021

* According to IEC 60228