

Features

- Superior Flame Retardance
- Exceptional wet electrical properties
- Enhanced Mechanical toughness
- Wide temperature range -45°C to 125°C^*
- Thermoset Insulation
- Excellent oil/solvent resistance
- Sunlight resistant
- Low Smoke
- Zero Halogen

Performance Standards

- Satisfies performance requirements of BS EN 50265-2-1: 1999 (IEC 60332-2-2: 2004)
- Satisfies performance requirements of BS EN 50265-2-2:1999 (IEC 60332-2-1: 2004)
- Satisfies the requirements for BS 6853:1999 vehicle category 1a for vehicles interior and exterior per:
 - BS 6853: 1997 Annex D 8.7
 - BS 6853: 1999, Clause 6.2, Table 13&14
 - BS 6853: 1999 Annex B.1
- Satisfies performance requirements of IEC 60754-1
- Satisfies performance requirements of IEC 60754-2
- Meets EN 45545
- Passes BS EN 60332-1-2
- Passes BS EN 50305 Clause 9.1.2
- Passes BS EN 61034-2
- Passes BS EN 60332-3-24

Construction

Conductor: Annealed, Tinned copper per ASTM B33, B172, AAR S-501, and AAR RP-585

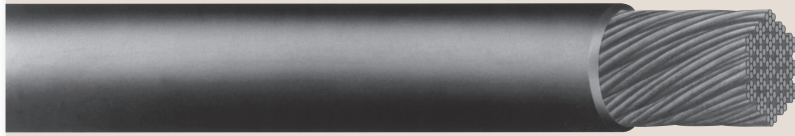
Insulation: Crosslinked polyolefin, Exane® (colors – as required)

*RSCC rated 125°C , 130°C overload, 250°C short circuit

Scope

Exane®-ZH, Low Smoke Zero Halogen transit wire is a tough, highly flame retardant construction ideally suited for use in rugged locomotive and transportation industry applications. It has excellent electrical characteristics combined with superior mechanical, heat, moisture, oil, chemical and abrasion properties. This wire should be considered for applications where flame resistance and low levels of off gassing and toxic fumes are required.

Exane® ZH 125°C Transit Wire



Low Smoke Zero Halogen

1800/3000 Volt

Spec: DAA1105A

Conductor (mm ²)	Conductor Construction (#/mm Dia)	Conductor Diameter (mm)	Nominal Wall Thickness (mm)	Nominal Ins. Diameter (mm)	DCR at 20° C (Ω/km)	Weight (kg/100m)	Bend Radius (mm)
0.75	24/0.20	1.14	1.14	3.49	26.70	1.90	13.68
1	32/0.20	1.22	1.14	3.56	20.00	2.20	14.24
1.5	30/0.25	1.52	1.14	3.89	13.70	2.90	15.56
2.5	50/0.25	1.93	1.14	4.29	7.6	4.02	17.16
4	56/0.30	2.45	1.14	4.80	5.08	5.70	19.20
6	84/0.30	3.30	1.14	5.65	2.97	8.10	22.16
10	80/0.40	3.98	1.40	6.86	1.95	13.20	27.44
16	133/0.40	5.86	1.40	8.73	1.24	21.00	34.92
25	209/0.40	7.46	1.40	10.33	0.793	31.70	41.32
35	280/0.40	8.76	1.65	12.15	0.56	42.30	48.60
50	399/0.40	10.59	1.65	13.98	0.39	58.80	55.92
70	361/0.50	11.68	1.65	15.08	0.27	76.70	60.32
95	475/0.50	13.33	1.65	16.73	0.21	116.10	66.92
120	614/0.50	15.31	1.90	19.22	0.164	128.20	76.88
150	741/0.50	16.51	1.90	20.45	0.13	160.42	81.80
185	925/0.50	19.05	1.90	22.96	0.101	189.50	91.84
240	1221/0.50	22.35	1.90	26.26	0.0767	251.21	105.04
300	1480/0.50	24.63	2.29	29.32	0.0698	308.00	117.28
400	2013/0.50	27.94	2.29	32.64	0.05	417.45	130.56



Marmon Electrical
A Berkshire Hathaway Company