

## Features

- Superior Flame Retardance
- Exceptional wet electrical properties
- Enhanced Mechanical toughness
- Wide temperature range  $-45^{\circ}\text{C}$  to  $125^{\circ}\text{C}^*$
- 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

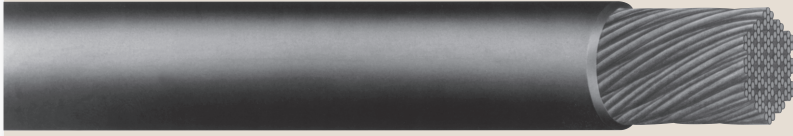
**Insulation:** Crosslinked polyolefin, Exane<sup>®</sup> (colors – as required)

\*RSCC rated  $125^{\circ}\text{C}$ ,  $130^{\circ}\text{C}$  overload,  $250^{\circ}\text{C}$  short circuit

## Scope

Exane<sup>®</sup>-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 <sup>2</sup> )	Conductor Construction (#/mm Dia)	Conductor Diameter (mm)	Nominal Wall Thickness (mm)	Nominal Ins. Diameter (mm)	DCR** (Ω/km)	Weight (kg/100m)	Bend Radius (mm)
0.75	24/0.20	1.09	1.14	3.42	26.70	1.90	13.68
1	32/0.20	1.22	1.14	3.57	20.00	2.20	14.28
1.5	30/0.25	1.52	1.14	3.88	13.70	2.98	15.52
2.5	50/0.25	1.93	1.14	4.29	8.21	4.02	17.16
4	56/0.30	2.46	1.14	4.82	5.09	5.81	19.28
6	84/0.30	3.17	1.14	5.53	3.39	8.20	22.12
10	80/0.40	3.93	1.40	6.80	1.95	13.12	27.20
16	133/0.40	5.59	1.40	8.45	1.24	19.97	33.80
25	203/0.40	6.55	1.40	9.42	0.795	29.22	37.68
35	280/0.40	8.25	1.65	11.66	0.57	41.29	46.64
50	399/0.40	9.78	1.65	13.18	0.39	56.65	52.72
70	361/0.50	11.68	1.65	15.08	0.28	77.97	60.32
95	475/0.50	13.33	1.65	16.73	0.21	102.12	66.92
150	741/0.50	17.02	1.90	20.45	0.132	160.42	81.80
185	962/0.50	19.05	1.90	22.99	0.108	196.50	91.16
240	1184/0.50	21.59	1.90	25.53	0.0817	251.21	102.12
300	1480/0.50	24.257	2.29	28.95	0.0654	316.37	115.80
400	1961/0.50	27.94	2.29	32.64	0.0495	417.45	130.56

\* According to ICEA 5-66-524

\*\* According to IEC 60228.



Marmon Electrical  
A Berkshire Hathaway Company