



125°C* Locomotive Wire
600 Volt and 2000 Volt
AAR S-501/RP-585
(XLPO)
Spec. DAA1093

Features

- Wide temperature range -55°C to 125°C*
- Thermoset Insulation
- Superior mechanical properties
- Flexible construction
- Flame retardant
- Excellent fluid/oil resistance
- Moisture and sunlight resistant

Performance Standards

- AAR S-501
- AAR RP-585
- ICEA S-66-524 (5-95-658)
- Passes UL VW-1 flame test
- Passes IEEE-383 1974 vertical tray flame test
- Meets requirements of 49 CFR Part 238 for flame and smoke requirements
- Meets transit toxicity requirements when tested in accordance with BSS 7239

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

**2KV heavy duty available on request

Scope

Exane[®]-1093 single conductor 600 and 2000 volt cable is an extremely tough construction ideally suited for use in rugged diesel electric locomotive applications. The insulation has outstanding resistance to abrasion, cut-through, low and high temperatures, petrochemical fluids, sunlight, and moisture. The material also has excellent flame retardance, acid gas, and electrical characteristics. Due to Exane's 125°C temperature rating, ampacity levels are higher. This leads to important benefits regarding size, weight, and ease of installation, for use in locomotive, transit, motor lead and other industrial applications.

Exane[®]-1093 Locomotive Wire

600 Volt Class

Product Number	Conductor Size		Stranding	Max. Cond. Diameter		Insulation Wall		Cable O.D. Nom.		Weight per MFT	
	(AWG)	(mm ²)		(Inch)	(mm)	(Inch)	(mm)	(Inch)	(mm)	(lbs/m')	(kg/km)
HXE-22-600V	22	.38	19/34	.032	.81	.030	.76	.092	2.34	4	6
HXE-20-600V	20	.61	19/32	.042	1.02	.030	.76	.100	2.54	6	9
HXE-18-600V	18	.96	19/30	.052	1.32	.030	.76	.109	2.77	9	13
HXE-16-600V	16	1.22	19/29	.058	1.57	.030	.76	.116	2.95	13	19
HXE-14-600V	14	1.94	19/27	.072	1.88	.030	.76	.129	3.28	18	27
HXE-12-600V	12	3.08	19/25	.091	2.39	.030	.76	.147	3.73	26	39
HXE-10-600V	10	5.53	27/24	.125	3.25	.030	.76	.178	4.52	44	66
HXE-8-600V	8	7.57	37/24	.142	3.73	.045	1.14	.232	5.89	65	97
HXE-6-600V	6	12.5	61/24	.183	5.26	.045	1.14	.284	7.21	102	153
HXE-5-600V	5	19	91/24	.221	6.20	.045	1.14	.334	8.48	142	213
HXE-4-600V	4	21	105/24	.264	6.70	.045	1.14	.355	9.02	165	248
HXE-2-600V	2	31	150/24	.325	8.25	.045	1.14	.410	10.41	233	350
HXE-1-600V	1	46	225/24	.395	9.91	.055	1.40	.501	12.73	343	515

2000 Volt Class

Product Number	Conductor Size		Stranding	Max. Cond. Diameter		Insulation Wall		Cable O.D. Nom.		Weight per MFT	
	(AWG/MCM)	(mm ²)		(Inch)	(mm)	(Inch)	(mm)	(Inch)	(mm)	(lbs/m')	(kg/km)
HXE-18-2KV	18	.96	19/30	.052	1.32	.045	1.14	.139	3.53	14	21
HXE-16-2KV	16	1.22	19/29	.058	1.57	.045	1.14	.146	3.71	17	25
HXE-14-2KV	14	1.94	19/27	.072	1.88	.045	1.14	.159	4.04	24	36
HXE-12-2KV	12	3.08	19/25	.091	2.39	.045	1.14	.177	4.50	32	48
HXE-10-2KV	10	5.53	27/24	.125	3.25	.045	1.14	.208	5.28	51	76
HXE-8-2KV	8	7.57	37/24	.142	3.73	.055	1.40	.252	6.40	71	106
HXE-6-2KV	6	12.5	61/24	.183	5.26	.055	1.40	.304	7.72	108	162
HXE-5-2KV	5	19	91/24	.221	6.20	.055	1.40	.354	8.99	149	224
HXE-4-2KV	4	21	105/24	.264	6.70	.055	1.40	.376	9.55	173	269
HXE-3-2KV	3	26	125/24	.288	7.31	.055	1.40	.401	10.19	204	306
HXE-2-2KV	2	31	150/24	.325	8.25	.055	1.40	.431	10.95	242	363
HXE-1-2KV	1	46	225/24	.395	9.91	.065	1.65	.522	13.26	354	531
HXE-1/0-2KV	1/0	56	275/24	.440	11.2	.065	1.65	.562	14.27	420	630
HXE-2/0-2KV	2/0	66	325/24	.465	12.1	.065	1.65	.597	15.16	494	741
HXE-3/0-2KV	3/0	92	450/24	.555	14.3	.065	1.65	.683	17.35	711	1067
HXE-4/0-2KV	4/0	112	550/24	.610	16	.065	1.65	.718	18.24	851	1277
HXE-262-2KV	262	133	650/24	.660	17	.075	1.90	.803	20.40	979	1469
HXE-313-2KV	313	159	775/24	.725	18	.075	1.90	.870	22.10	1150	1725
HXE-373-2KV	373	189	925/24	.795	20	.075	1.90	.920	23.37	1354	2031
HXE-444-2KV	444	225	1100/24	.870	22	.075	1.90	1.000	25.40	1608	2412
HXE-535-2KV	535	271	1325/24	.950	25	.090	2.29	1.120	28.45	1994	2991
HXE-646-2KV	646	327	1600/24	1.040	27	.090	2.29	1.235	31.37	2300	3450
HXE-777-2KV	777	394	1925/24	1.130	29	.090	2.29	1.300	33.02	2735	4103
HXE-1111-2KV	1111	523	2750/24	1.370	34.8	.110	2.79	1.580	40.13	3807	5707



Marmon Engineered Wire & Cable LLC
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