



Conductor
Tin-coated copper
(various strandings)

Insulation
Flame-retardant
crosslinked polyolefin
(XLPO)

Exane®-1068A

110°C* Transit Wire

2000 Volt
AAR S-501/RP-585
(XLPO)

Spec. DAA1068A

Scope

Exane®-1068A transit wire is a tough, flame retardant construction ideally suited for rugged transportation industry applications. It has a high temperature rating yet will not crack at temperatures down to -55°C . Exane® transit wire has much better resistance to cut-through, crush, and scrape abrasion than rubber, EPR,

Neoprene and Hypalon. It is also more flexible and has better overload characteristics than fluoropolymers. Exane® transit wire has good moisture and oil resistance, excellent fire resistance, and low smoke and acid gas generation characteristics.

Features

- Wide temperature range -55°C to 110°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)

* Rockbestos-Surprenant rated 110°C , 130°C overload, 250°C short circuit

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AAR S-501/RP-585

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Product Number	Conductor		Insulation		Nom.		Ampacity* @ 110°C	Aprox. Weight	
	Size (AWG)	Stranding	Wall (Inch)	(mm ²)	Diameter (Inch)	(mm ²)		(#/m')	(kg/km)
TXE-18-2KV	18	19/30	.045	1.14	0.137	3.48	30	15	22
TXE-16-2KV	16	19/29	.045	1.14	0.144	3.66	35	17	25
TXE-14-2KV	14	19/27	.045	1.14	0.157	3.99	41	23	34
TXE-12-2KV	12	19/25	.045	1.14	0.176	4.47	52	32	48
TXE-10-2KV	10	27/24	.045	1.14	0.213	5.41	73	51	76
TXE-8-2KV	8	37/24	.055	1.40	0.251	6.37	85	71	106
TXE-6-2KV	6	61/24	.055	1.40	0.300	7.62	120	108	161
TXE-5-2KV	5	91/24	.055	1.40	0.354	9.00	160	149	222
TXE-4-2KV	4	105/24	.055	1.40	0.374	9.50	168	173	257
TXE-3-2KV	3	125/24	.055	1.40	0.395	10.0	199	204	303
TXE-2-2KV	2	150/24	.055	1.40	0.430	10.9	214	242	360
TXE-1-2KV	1	225/24	.065	1.65	0.515	13.1	268	354	527
TXE-1/0-2KV	1/0	275/24	.065	1.65	0.565	14.3	304	424	631
TXE-2/0-2KV	2/0	325/24	.065	1.65	0.620	15.7	338	494	735
TXE-3/0-2KV	3/0	450/24	.065	1.65	0.680	17	414	668	994
TXE-4/0-2KV	4/0	550/24	.065	1.65	0.752	19	472	781	1162
TXE-262-2KV	262MCM	650/24	.075	1.90	0.802	20	524	925	1376
TXE-313-2KV	313MCM	775/24	.075	1.90	0.870	22	590	1090	1622
TXE-373-2KV	373MCM	925/24	.075	1.90	0.920	23	657	1244	1851
TXE-444-2KV	444MCM	1100/24	.075	1.90	1.000	25	734	1529	2275
TXE-535-2KV	535MCM	1325/24	.090	2.29	1.140	29	828	1904	2833
TXE-646-2KV	646MCM	1600/24	.090	2.29	1.235	31	931	2206	3282
TXE-777-2KV	777MCM	1925/24	.090	2.29	1.300	33	1047	2624	3904
TXE-1111-2KV	1111MCM	2750/24	.120	3.05	1.592	40	1254	3742	5568

1. The Exane® insulation family has outstanding mechanical and electrical test characteristics. It also has excellent long-term moisture resistance and heat aging characteristics. See the above specification for details.

2. Normal stock color is dark grey. Striping is also available.

* These ampacities are based on single conductors in air with an ambient of 40°C and conductor temperature of 110°C.