

Insulation
Flame-retardant
crosslinked polyolefin
(XLPO)

Conductor
Tin-coated copper
(various strandings)

Exane®-1068A

110°C* Transit Wire

600 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

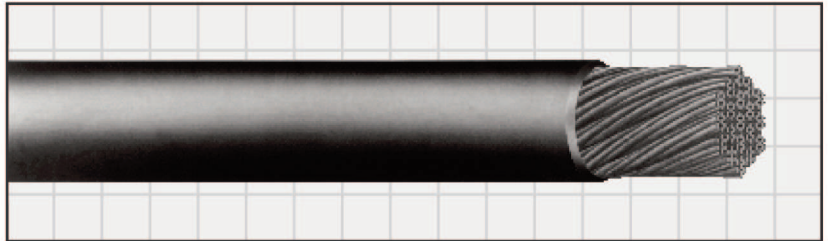
Insulation:

Crosslinked polyolefin, Exane® (colors – as required)

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

Exane[®]-1068A 110°C Transit Wire

600 Volt
AAR S-501/RP-585



Spec. DAA1068A

Product Number	Conductor Size		Insulation Wall	Nom. Diameter		Ampacity* @ 110°C	Aprox. Weight			
	(AWG)	Stranding (mm ²)		(Inch)	(mm)		(#/m')	(kg/km)		
TXE-20-600V	20	19/32	.62	.030	.76	0.100	2.34	15	8	11.9
TXE-18-600V	18	19/30	.96	.030	.76	0.107	2.72	30	11	16.4
TXE-16-600V	16	19/29	1.22	.030	.76	0.114	2.90	35	13	19.3
TXE-14-600V	14	19/27	1.94	.030	.76	0.127	3.23	41	18	26.8
TXE-12-600V	12	19/25	3.08	.030	.76	0.146	3.71	52	27	40.5
TXE-10-600V	10	27/24	5.53	.030	.76	0.183	4.65	73	44	65.5
TXE-8-600V	8	37/24	7.57	.045	1.14	0.231	5.87	85	65	96.7
TXE-6-600V	6	61/24	12.5	.045	1.14	0.280	7.11	120	102	151.8
TXE-5-600V	5	91/24	19	.045	1.14	0.330	8.38	160	149	223.5
TXE-4-600V	4	105/24	21	.045	1.14	0.350	8.89	168	171	256.5
TXE-3-600V	3	125/24	26	.045	1.14	0.375	9.53	199	195	290.2
TXE-2-600V	2	150/24	31	.045	1.14	0.410	10.41	214	233	346.7
TXE-1-600V	1	225/24	46	.055	1.40	0.495	12.57	268	343	510.4
TXE-1/0-600V	1/0	275/24	56	.055	1.40	0.545	13.84	304	410	610.1
TXE-2/0-600V	2/0	325/24	66	.055	1.40	0.590	15.00	338	481	715.8
TXE-3/0-600V	3/0	450/24	92	.055	1.40	0.660	16.76	414	653	971.7
TXE-4/0-600V	4/0	550/24	112	.055	1.40	0.720	18.29	472	790	1175.6
TXE-262-600V	262MCM	650/24	133	.065	1.65	0.782	19.86	524	931	1385.4
TXE-313-600V	313MCM	775/24	159	.065	1.65	0.850	21.59	590	1099	1635.4
TXE-373-600V	373MCM	925/24	189	.065	1.65	0.900	22.86	657	1300	1934.5
TXE-444-600V	444MCM	1100/24	225	.065	1.65	0.980	24.89	734	1551	2308.0
TXE-535-600V	535MCM	1325/24	271	.080	2.03	1.110	28.19	828	1934	2878.0
TXE-646-600V	646MCM	1600/24	327	.080	2.03	1.215	30.86	931	2250	3337.5
TXE-777-600V	777MCM	1925/24	394	.080	2.03	1.280	32.52	1047	2669	3971.7
TXE-1111-600V	1111MCM	2750/24	563	.095	2.41	1.530	38.86	1254	3781	5626.5

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.