

110°C\* Transit Wire  
600 Volt  
AAR S-501/RP-585  
(XLPO)  
Spec. DAA1068A

## 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
- REACH and RoHS compliant

## Performance Standards

- Meets AAR RP-585/S-501
- Insulation IAW ICEA S-66-524 (S-95-658)
- Passes NFPA 130-2010, 2014, 2017, 2020
- Meets requirements of UL 1685 (FT4/IEEE 1202 with smoke measurement)
- Meet the requirements of 49 CFR Part 238 for flame and smoke requirements (ICEA S-19-81)
- Meet the requirements of ASTM E662 in flaming and non-flaming modes
- Meet the transit toxicity requirements when tested in accordance with BSS 7239
- Passes UL VW-1 flame test
- Passes IEEE-383 1974 vertical tray flame test
- Meet APTA PR-E-RP-009-98 2021 publication

## Construction

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

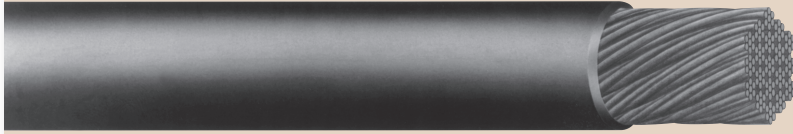
**Insulation:** Irradiated Crosslinked polyolefin XLPO Exane<sup>®</sup>, (colors – as required)

\* RSCC rated 110°C, 130°C overload, 250°C short circuit

## Scope

Exane<sup>®</sup>-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<sup>®</sup> 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<sup>®</sup> transit wire has good moisture and oil resistance, excellent fire resistance, and low smoke and acid gas generation characteristics.

# Exane<sup>®</sup>-1068A Transit Wire



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Product Description	RSCC Dark Gray Part Number	Cond. Size (AWG)	Stranding	Max. Cond. Diameter		Insulation Wall		Nom. Diameter		Ampacity* @110°C	Aprox. Weight	
				(Inch)	(mm)	(Inch)	(mm)	(Inch)	(mm)		(lbs/1000 ft)	(kg/km)
TXE-20-600V	EC01020-005	20	19/32	.039	0.99	0.030	0.76	0.100	2.54	13	8.0	11.9
TXE-18-600V	EC01018-015	18	19/30	.049	1.24	0.030	0.76	0.109	2.77	18	10.6	15.8
TXE-16-600V	EC01016-023	16	19/29	.055	1.40	0.030	0.76	0.116	2.95	24	12.6	18.8
TXE-14-600V	EC01014-012	14	19/27	.068	1.73	0.030	0.76	0.129	3.28	39	17.8	26.5
TXE-12-600V	EC01012-026	12	19/25	.086	2.18	0.030	0.76	0.147	3.73	51	26	38.8
TXE-10-600V	EC01010-010	10	27/24	.118	3.00	0.030	0.76	0.178	4.52	67	43.5	64.9
TXE-8-600V	EC01008-009	8	37/24	.140	3.56	0.045	1.14	0.232	5.89	85	63.7	95.0
TXE-6-600V	EC01006-010	6	61/24	.190	4.83	0.045	1.14	0.279	7.08	120	102	152.1
TXE-5-600V	EC01005-003	5	91/24	.244	6.20	0.045	1.14	0.332	8.43	145	152.1	226.8
TXE-4-600V	EC01004-011	4	105/24	.264	6.71	0.045	1.14	0.352	8.94	160	169.3	252.4
TXE-3-600V	EC01003-002	3	125/24	.288	7.31	0.045	1.14	0.372	9.44	180	193.7	288.8
TXE-2-600V	EC01002-008	2	150/24	.325	8.26	0.045	1.14	0.411	10.44	214	230.8	344.1
TXE-1-600V	EC01001-009	1	225/24	.390	9.91	0.055	1.40	0.501	12.73	247	347.7	518.4
TXE-1/0-600V	EC011X0-012	1/0	275/24	.435	11.04	0.055	1.40	0.541	13.74	286	418.1	623.3
TXE-2/0-600V	EC012X0-012	2/0	325/24	.445	11.30	0.055	1.40	0.556	14.12	329	461.5	688.1
TXE-3/0-600V	EC013X0-010	3/0	450/24	.555	14.10	0.055	1.40	0.661	16.79	380	658	981.0
TXE-4/0-600V	EC014X0-014	4/0	550/24	.575	14.61	0.055	1.40	0.686	17.42	446	762	1136.1
TXE-262-600V	EC01262-006	262	650/24	.632	16.05	0.065	1.65	0.765	19.43	524	904	1347.8
TXE-313-600V	EC01313-007	313	775/24	.700	17.78	0.065	1.65	0.833	21.16	590	1070	1595.3
TXE-373-600V	EC01373-006	373	925/24	.758	19.25	0.065	1.65	0.886	22.50	657	1264	1884.5
TXE-444-600V	EC01444-009	444	1100/24	.830	21.08	0.065	1.65	0.95	24.13	734	1494	2227.4
TXE-535-600V	EC01535-008	535	1325/24	.905	22.99	0.080	2.03	1.06	26.92	828	1811	2700.0
TXE-646-600V	EC01646-000	646	1600/24	1.002	25.45	0.080	2.03	1.152	29.26	931	2164	3226.3
TXE-777-600V	EC01777-001	777	1925/24	1.080	27.43	0.080	2.03	1.235	31.37	1047	2592	3864.4
TXE-1111-600V	EC01999-000	1111	2750/24	1.350	34.29	0.110	2.79	1.55	39.37	1254	3748	5578.0

1. The Exane<sup>®</sup> 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.

3. Contact RSCC for other colors (not dark grey) part numbers.

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



Marmon Electrical  
A Berkshire Hathaway Company