



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

- Meets AAR RP-585/S-501
- Insulation IAW ICEA S-66-524 (S-95-658)
- Passes NFPA 130-2014
- 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

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 110°C , 130°C overload, 250°C short circuit

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.

Exane[®]-1068A Transit Wire



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

Product Number	Conductor Size (AWG)	Stranding	Insulation Wall (Inch) (mm)		Nom. Diameter (Inch) (mm)		Ampacity* @110°C	Approx. Weight (lbs/1000 ft) (kg/km)	
TXE-18-600V	18	19/30	0.030	0.76	0.109	2.77	18	10.6	15.8
TXE-16-600V	16	19/29	0.030	0.76	0.116	2.95	24	12.6	18.8
TXE-14-600V	14	19/27	0.030	0.76	0.129	3.28	39	17.8	26.5
TXE-12-600V	12	19/25	0.030	0.76	0.147	3.73	51	26	38.8
TXE-10-600V	10	27/24	0.030	0.76	0.178	4.52	67	43.5	64.9
TXE-8-600V	8	37/24	0.045	1.14	0.232	5.89	85	63.7	95.0
TXE-6-600V	6	61/24	0.045	1.14	0.284	7.21	120	102	152.1
TXE-5-600V	5	91/24	0.045	1.14	0.33	8.38	145	152.1	226.8
TXE-4-600V	4	105/24	0.045	1.14	0.356	9.04	160	169.3	252.4
TXE-3-600V	3	125/24	0.045	1.14	0.381	9.68	180	193.7	288.8
TXE-2-600V	2	150/24	0.045	1.14	0.411	10.44	214	230.8	344.1
TXE-1-600V	1	225/24	0.055	1.40	0.501	12.73	247	347.7	518.4
TXE-1/0-600V	1/0	275/24	0.055	1.40	0.541	13.74	286	418.1	623.3
TXE-2/0-600V	2/0	325/24	0.055	1.40	0.556	14.12	329	461.5	688.1
TXE-3/0-600V	3/0	450/24	0.055	1.40	0.661	16.79	380	658	981.0
TXE-4/0-600V	4/0	550/24	0.055	1.40	0.686	17.42	446	762	1136.1
TXE-262-600V	262	650/24	0.065	1.65	0.765	19.43	524	904	1347.8
TXE-313-600V	313	775/24	0.065	1.65	0.833	21.16	590	1070	1595.3
TXE-373-600V	373	925/24	0.065	1.65	0.886	22.50	657	1264	1884.5
TXE-444-600V	444	1100/24	0.065	1.65	0.95	24.13	734	1494	2227.4
TXE-535-600V	535	1325/24	0.080	2.03	1.06	26.92	828	1811	2700.0
TXE-646-600V	646	1600/24	0.080	2.03	1.152	29.26	931	2164	3226.3
TXE-777-600V	777	1925/24	0.080	2.03	1.235	31.37	1047	2592	3864.4
TXE-1111-600V	1111	2750/24	0.095	2.41	1.53	38.86	1254	3781	5637.1

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.



Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company