

PVC-Nylon/PVC

Product Description

- PVC-nylon insulation
- PVC jacket
- 90°C, 600 V

Applications

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II, Div. 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art 336 "Power and Control Tray Cable."



Specification *<if applicable>*

- CONDUCTORS: Class B stranded bare copper per UL 83 and 62
- INSULATION: Polyvinyl Chloride (PVC) per UL 62 for Type TFFN (18-16 AWG) or UL 83 for Type THWN or THHN wire, nominal thickness is 15 mils for sizes 18-12 AWG and 20 mils for 10 AWG
- INSULATION JACKET: Each insulated conductor is jacketed with nylon meeting UL 62 for Type TFFN or UL 83 for Type THWN or THHN wire, minimum thickness is 4 mils
- COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2)
- ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
- OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
- STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN (TFFN) conductors, cables are listed for direct burial and meet the IEEE 1202, IEEE 383 and UL 1685 Btu/hr flame tests. Three conductor and larger constructions meet UL 1277 requirements for Exposed Runs and are rated Type TC-ER (Tray Cable, Exposed Runs)
- AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per NEC Table 310.16, the values have been derated where applicable
- TEMPERATURE: 90°C
- VOLTAGE: 600 V

Electrical and Electronic Wire & Cable • Enterprise Cabling & Security Solutions

Anixter Inc. World Headquarters • 2301 Patriot Boulevard, Glenview, IL 60026-8020 • 1.800.ANIXTER • 224.521.8000 • anixter.com

Anixter is a leading global supplier of communications and security products, electrical and electronic wire and cable, fasteners and other small components. We help our customers specify solutions and make informed purchasing decisions around technology, applications and relevant standards. Throughout the world, we provide innovative supply chain management solutions to reduce our customers' total cost of production and implementation.

Anixter does not manufacture the items described in this publication. Any applicable product warranties are provided by the manufacturers. To the fullest extent permitted by law, Anixter disclaims all warranties, either express or implied. The information provided and any images shown are for descriptive purposes only. Anixter makes no warranty or representation, express or implied, about the accuracy or completeness of any information provided. Data and suggestions made in the publication are not to be construed as recommendations to purchase or as authorizations to use any products in violation of any law or regulation. All products are sold subject to Anixter's General Conditions of Sale.

Diameters and weights may vary among manufacturers. Other conductor counts available upon request. Composite power and control available upon request. Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG. All part numbers require color code designation. See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2A-1203-1).

Part No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.
2A-1802	18	2	0.045	0.184 x 0.275	41
2A-1803	18	3	0.045	0.288	50
2A-1804	18	4	0.045	0.312	60
2A-1805	18	5	0.045	0.338	71
2A-1807	18	7	0.045	0.376	89
2A-1809	18	9	0.045	0.41	104
2A-1810	18	10	0.045	0.438	121
2A-1812	18	12	0.045	0.461	156
2A-1815	18	15	0.045	0.507	169
2A-1819	18	19	0.06	0.578	220
2A-1825	18	25	0.06	0.66	258
2A-1837	18	37	0.06	0.76	390
2A-1602	16	2	0.045	0.202 x 0.330	49
2A-1603	16	3	0.045	0.312	66
2A-1604	16	4	0.045	0.333	79
2A-1605	16	5	0.045	0.368	94
2A-1606	16	6	0.045	0.399	109
2A-1607	16	7	0.045	0.399	118
2A-1608	16	8	0.045	0.43	133
2A-1609	16	9	0.045	0.461	147
2A-1612	16	12	0.045	0.505	178
2A-1615	16	15	0.06	0.587	243
2A-1619	16	19	0.06	0.633	296
2A-1625	16	25	0.06	0.723	376
2A-1630	16	30	0.06	0.775	456
2A-1637	16	37	0.06	0.877	580
2A-1402	14	2	0.045	0.208 x 0.323	64
2A-1403	14	3	0.045	0.34	87
2A-1404	14	4	0.045	0.37	107
2A-1405	14	5	0.045	0.403	129

(cont.)

Electrical and Electronic Wire & Cable • Enterprise Cabling & Security Solutions

Anixter Inc. World Headquarters • 2301 Patriot Boulevard, Glenview, IL 60026-8020 • 1.800.ANIXTER • 224.521.8000 • anixter.com

Anixter is a leading global supplier of communications and security products, electrical and electronic wire and cable, fasteners and other small components. We help our customers specify solutions and make informed purchasing decisions around technology, applications and relevant standards. Throughout the world, we provide innovative supply chain management solutions to reduce our customers' total cost of production and implementation.

Anixter does not manufacture the items described in this publication. Any applicable product warranties are provided by the manufacturers. To the fullest extent permitted by law, Anixter disclaims all warranties, either express or implied. The information provided and any images shown are for descriptive purposes only. Anixter makes no warranty or representation, express or implied, about the accuracy or completeness of any information provided. Data and suggestions made in the publication are not to be construed as recommendations to purchase or as authorizations to use any products in violation of any law or regulation. All products are sold subject to Anixter's General Conditions of Sale.

Part No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.
2A-1406	14	6	0.045	0.438	147
2A-1407	14	7	0.045	0.438	162
2A-1408	14	8	0.045	0.473	184
2A-1409	14	9	0.045	0.508	221
2A-1410	14	10	0.06	0.56	237
2A-1412	14	12	0.06	0.588	281
2A-1415	14	15	0.06	0.646	340
2A-1419	14	19	0.06	0.698	408
2A-1425	14	25	0.06	0.791	520
2A-1430	14	30	0.08	0.899	666
2A-1437	14	37	0.08	0.968	794
2A-1202	12	2	0.045	0.227 x 0.361	83
2A-1203	12	3	0.045	0.381	113
2A-1204	12	4	0.045	0.415	145
2A-1205	12	5	0.045	0.454	175
2A-1206	12	6	0.045	0.495	199
2A-1207	12	7	0.045	0.495	223
2A-1208	12	8	0.045	0.566	268
2A-1209	12	9	0.06	0.606	304
2A-1212	12	12	0.06	0.665	388
2A-1219	12	19	0.06	0.793	581
2A-1220	12	20	0.06	0.817	647
2A-1225	12	25	0.08	0.951	779
2A-1230	12	30	0.08	1.02	988
2A-1237	12	37	0.08	1.101	1,134
2A-1002	10	2	0.045	0.262 x 0.431	115
2A-1003	10	3	0.045	0.456	167
2A-1004	10	4	0.045	0.5	212
2A-1005	10	5	0.06	0.579	269
2A-1007	10	7	0.06	0.63	352
2A-1009	10	9	0.06	0.733	445
2A-1012	10	12	0.06	0.807	579

Electrical and Electronic Wire & Cable • Enterprise Cabling & Security Solutions

Anixter Inc. World Headquarters • 2301 Patriot Boulevard, Glenview, IL 60026-8020 • 1.800.ANIXTER • 224.521.8000 • anixter.com

Anixter is a leading global supplier of communications and security products, electrical and electronic wire and cable, fasteners and other small components. We help our customers specify solutions and make informed purchasing decisions around technology, applications and relevant standards. Throughout the world, we provide innovative supply chain management solutions to reduce our customers' total cost of production and implementation.

Anixter does not manufacture the items described in this publication. Any applicable product warranties are provided by the manufacturers. To the fullest extent permitted by law, Anixter disclaims all warranties, either express or implied. The information provided and any images shown are for descriptive purposes only. Anixter makes no warranty or representation, express or implied, about the accuracy or completeness of any information provided. Data and suggestions made in the publication are not to be construed as recommendations to purchase or as authorizations to use any products in violation of any law or regulation. All products are sold subject to Anixter's General Conditions of Sale.