

## PVC-Nylon/PVC Shielded

### Product Description

PVC-nylon insulation  
Shielded  
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

- CONDUCTORS: Class B stranded bare copper per UL 83 and 62
- INSULATION: Polyvinyl Chloride (PVC) per UL 62 for Type TFFN (16 AWG) or UL 83 for Type THWN or THHN wire, nominal thickness is 15 mils
- 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
- SHIELD: Aluminum/Mylar helically applied with tinned copper drain wire
- 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, IEE 383 and UL 1685. 70,000 BTU/HR flame tests
- 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

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Diameters and weights may vary among manufacturers. Other conductor counts available upon request. Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG and 20 A for 12 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-1602S-1).

Part No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Cond
2A-1802S	18	2	0.045	0.28	38	6
2A-1803S	18	3	0.045	0.294	49	6
2A-1804S	18	4	0.045	0.317	58	4.8
2A-1806S	18	6	0.045	0.370	82	4.8
2A-1602S	16	2	0.045	0.31	58	18
2A-1603S	16	3	0.045	0.325	73	18
2A-1604S	16	4	0.045	0.35	87	14
2A-1605S	16	5	0.045	0.38	102	14
2A-1607S	16	7	0.045	0.415	122	12
2A-1402S	14	2	0.045	0.33	75	25
2A-1403S	14	3	0.045	0.35	94	25
2A-1404S	14	4	0.045	0.38	115	20
2A-1405S	14	5	0.045	0.415	130	20
2A-1407S	14	7	0.045	0.45	167	17
2A-1202S	12	2	0.045	0.375	102	30
2A-1203S	12	3	0.045	0.395	130	30
2A-1204S	12	4	0.045	0.43	160	24
2A-1205S	12	5	0.045	0.47	184	24
2A-1207S	12	7	0.045	0.51	237	21
2A-1803S	18	3	0.045	0.294	49	6

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