

PVC-Nylon/PVC Tray Cable - With Ground



Product Description

PVC-nylon insulation
PVC jacket
UL Listed, Type TC

Applications

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Specifications

- CONDUCTOR: Class B stranded, annealed bare copper per ASTM B3 and B8
- INSULATION: Polyvinyl Chloride (PVC), nylon covered per UL 83 for Type THHN/THWN
- COLOR CODE*: Conductors are color coded per ICEA Method 4 (printed numbers)
- ASSEMBLY: Insulated conductors are cabled with a single ground wire and fillers as necessary to make round
- OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
- STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
- AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
- TEMPERATURE: 90°C
- VOLTAGE: 600 V

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Diameters and weights may vary among manufacturers.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3G-0803WG	8	7	10	3	0.060	0.600	283	55
3G-0804WG	8	7	10	4	0.060	0.655	373	55
3G-0603WG	6	7	8	3	0.060	0.684	386	75
3G-0604WG	6	7	8	4	0.060	0.752	488	60
3G-0403WG	4	7	8	3	0.080	0.876	653	95
3G-0404WG	4	7	8	4	0.080	0.970	828	76
3G-0203WG	2	7	6	3	0.080	1.005	948	104
3G-0204WG	2	7	6	4	0.080	1.117	1,211	104
3G-1013WG	1/0	19	6	3	0.080	1.207	1,451	170
3G-1014WG	1/0	19	6	4	0.080	1.344	1,832	136
3G-2023WG	2/0	19	6	3	0.080	1.297	1,738	195
3G-2024WG	2/0	19	6	4	0.080	1.452	2,223	156
3G-4043WG	4/0	19	4	3	0.110	1.530	2,652	260
3G-4044WG	4/0	19	4	4	0.110	1.768	3,457	208
3G-2503WG	250	37	4	3	0.110	1.740	3,128	290
3G-2504WG	250	37	4	4	0.110	1.937	4,046	232
3G-3503WG	350	37	3	3	0.110	1.961	4,215	350
3G-3504WG	350	37	3	4	0.110	2.180	5,469	280
3G-5003WG	500	37	2	3	0.110	2.234	5,892	430
3G-5004WG	500	37	2	4	0.110	2.494	7,556	344

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Conductor Insulation Color Code chart
ICEA Method 4: All conductors black*

Conductor	Conductor Printing	Conductor	Conductor Printing	Conductor	Conductor Printing
1 st .	"1-ONE-1"	18 th .	"18-EIGHTEEN-18"	35 th .	"35-THIRTY-FIVE-35"
2 nd .	"2-TWO-2"	19 th .	"19-NINETEEN-19"	36 th .	"36-THIRTY-SIX-36"
3 rd .	"3-THREE-3"	20 th .	"20-TWENTY-20"	37 th .	"37-THIRTY-SEVEN-37"
4 th .	"4-FOUR-4"	21 st .	"21-TWENTY-ONE-21"	38 th .	"38-THIRTY-EIGHT-38"
5 th .	"5-FIVE-5"	22 nd .	"22-TWENTY-TWO-22"	39 th .	"39-THIRTY-NINE-39"
6 th .	"6-SIX-6"	23 rd .	"23-TWENTY-THREE-23"	40 th .	"40-FORTY-40"
7 th .	"7-SEVEN-7"	24 th .	"24-TWENTY-FOUR-24"	41 st .	"41-FORTY-ONE-41"
8 th .	"8-EIGHT-8"	25 th .	"25-TWENTY-FIVE-25"	42 nd .	"42-FORTY-TWO-42"
9 th .	"9-NINE-9"	26 th .	"26-TWENTY-SIX-26"	43 rd .	"43-FORTY-THREE-43"
10 th .	"10-TEN-10"	27 th .	"27-TWENTY-SEVEN-27"	44 th .	"44-FORTY-FOUR-44"
11 th .	"11-ELEVEN-11"	28 th .	"28-TWENTY-EIGHT-28"	45 th .	"45-FORTY-FIVE-45"
12 th .	"12-TWELVE-12"	29 th .	"29-TWENTY-NINE-29"	46 th .	"46-FORTY-SIX-46"
13 th .	"13-THIRTEEN-13"	30 th .	"30-THIRTY-30"	47 th .	"47-FORTY-SEVEN-47"
14 th .	"14-FOURTEEN-14"	31 st .	"31-THIRTY-ONE-31"	48 th .	"48-FORTY-EIGHT-48"
15 th .	"15-FIFTEEN-15"	32 nd .	"32-THIRTY-TWO-32"	49 th .	"49-FORTY-NINE-49"
16 th .	"16-SIXTEEN-16"	33 rd .	"33-THIRTY-THREE-33"	50 th .	"50-FIFTY-50"
17 th .	"17-SEVENTEEN-17"	34 th .	"34-THIRTY-FOUR-34"		

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