

## ROME NON-POWER LIMITED FIRE ALARM CABLE Type NPLF

Fire / Life Safety Systems, Shielded, 150V  
 PVC with Nylon Insulation, Overall Shield, PVC Jacket

**APPLICATION:** Indoor use in fire/life safety systems, fire and alarm notification, smoke/heat detection, building control circuits and initiating circuit systems. Exceeds UL 1581 vertical tray flame test for cables installed as general purpose wiring. Rated 150 volts and -20°C to 90°C, dry locations.

**RATINGS:**  
 UL 1424 - Type NPLF  
 UL 83 - Type THHN/THWN  
 UL 62 - Type TFN

**NEC Articles:**  
 760 – Fire Alarm Systems  
 310 – Conductors for General Wiring  
 392 – Cable Trays

**CONSTRUCTION:** 18 - 12 AWG solid or stranded bare copper, PVC with nylon insulation, color coded, cabled, aluminum / polyester foil tape plus tinned copper drain, red PVC jacket, surface printed.

The diagram shows a cross-section of the cable. From left to right, the layers are: a thick outer PVC Jacket; a layer of Aluminum/Polyester Foil Tape; a Tinned Copper Drain Wire; a layer of PVC with Nylon Insulation; and a central Copper Conductor.

No. of Conductors	Size / Strands	Insulation Thickness Mils (PVC/NYLON)	Jacket Thickness Mils	OD Inches	Capacitance (pF / ft)	Net Wt. lb/1000 ft
2	18 Solid	15/5	35	.236	39	34
2	18 7/Str	15/5	35	.246	39	35
2	16 Solid	15/5	35	.256	45	44
2	16 7/Str	15/5	40	.280	44	48
2	14 Solid	15/5	40	.294	51	59
2	14 7/Str	15/5	40	.310	50	62
2	12 Solid	15/5	40	.326	58	78
2	12 7/Str	15/5	40	.348	56	81
4	18 Solid	15/5	40	.278	33	54
4	18 7/Str	15/5	40	.291	33	56
4	16 Solid	15/5	40	.304	38	71
4	16 7/Str	15/5	40	.319	37	74
4	14 Solid	15/5	40	.336	43	94
4	14 7/Str	15/5	40	.355	42	98
4	12 Solid	15/5	50	.395	49	136
4	12 7/Str	15/5	50	.421	47	143

- Notes:
1. Size 14 and 12 suitable for Wet Location use as specified in Article 760.3(D).
  2. Insulation rated 600 volts per Article 760.27(B).
  3. For Fire Alarm Circuits operating at 150 volts or less per Article 760.30.
  4. Suitable for installation in Cable Trays per Article 392.
  5. Nominal capacitance measured between conductors.

Color Code	No. Color
	1 Black
	2 Red
	3 Brown
	4 Blue