



UL 1424 / NEC Article 760 Fire Alarm Cables

FPLP

Plenum Fire Alarm Cable

300 V UL 1424 / NFPA 262 plenum-rated power-limited fire alarm cable (18-12 AWG)



300 V UL 1424

NFPA 262 Plenum

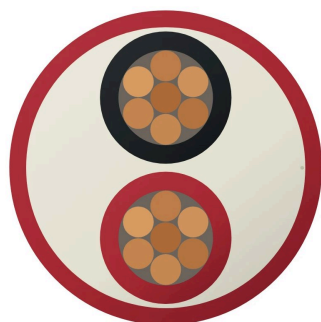
NEC Article 760

Application

Type FPLP (Power-Limited Fire Alarm Plenum Cable) is engineered to UL 1424 and NEC Article 760 for installation inside air-handling plenums, raised floors and environmental return-air ceiling ducts without conduit, passing the rigorous NFPA 262 (UL 910) Steine

Typical uses: Commercial office & HVAC plenums, Data centres & raised floors, Hospitals & universities, Airports & convention centres, High-rise UL/NFPA life safety

Construction



Cross-section, not to scale

1	Solid bare copper conductor	ASTM B3
2	Plenum low-smoke insulation	UL 1424
3	Foil shield + drain (shielded types)	UL 1424
4	Low-smoke plenum jacket	UL 1424

Technical data

Typical values

NEC / UL voltage rating	300 V rms (power-limited fire alarm)	Dielectric withstand test	1500 V AC for 1 minute
Nominal capacitance (18 AWG)	≈82 pF/m unshielded · ≈145 pF/m shielded	UL temperature rating	75 °C (low-smoke alloy) / 150 °C (FEP)
Operating temperature range	0 °C to +75 °C (up to +150 °C FEP)	Min. installation bend radius	8 × cable OD (unshielded) · 10 × OD (shielded)
Ripcord	Integral high-tensile nylon ripcord under jacket	Steiner Tunnel plenum test	NFPA 262 / UL 910 (flame travel ≤1.52 m, peak optical smoke ≤0.50, avg ≤0.15)
Substitution hierarchy	Permitted to substitute for FPLR, FPL, CMP, CMR, CL3P, CL2P per NEC 760.154	Standards	UL 1424 Type FPLP

Sizes

13 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation	AWG & Cores	Area mm ²	Outer Ø ≈ mm	Copper kg/km	Total weight ≈ kg/km	Min. bend R fixed mm
FPLP standard series 13 sizes						
☐ FPLP 18/2 Unshielded	2C × 18 AWG	0.82 mm ²	3.9	16	26	31
☐ FPLP 18/4 Unshielded	4C × 18 AWG	0.82 mm ²	4.6	31	45	37
☐ FPLP 16/2 Unshielded	2C × 16 AWG	1.31 mm ²	4.5	25	38	36
☐ FPLP 16/4 Unshielded	4C × 16 AWG	1.31 mm ²	5.3	50	66	42
☐ FPLP 14/2 Unshielded	2C × 14 AWG	2.08 mm ²	5.4	40	56	43
☐ FPLP 14/4 Unshielded	4C × 14 AWG	2.08 mm ²	6.4	79	102	51
☐ FPLP 12/2 Unshielded	2C × 12 AWG	3.31 mm ²	6.3	63	84	50
☐ FPLP 18/2 Shielded OAS	2C × 18 AWG OAS	0.82 mm ²	4.1	19	30	33
☐ FPLP 18/4 Shielded OAS	4C × 18 AWG OAS	0.82 mm ²	4.8	35	49	38
☐ FPLP 16/2 Shielded OAS	2C × 16 AWG OAS	1.31 mm ²	4.7	28	42	38
☐ FPLP 16/4 Shielded OAS	4C × 16 AWG OAS	1.31 mm ²	5.5	53	71	44
☐ FPLP 14/2 Shielded OAS	2C × 14 AWG OAS	2.08 mm ²	5.6	43	61	45
☐ FPLP 12/2 Shielded OAS	2C × 12 AWG OAS	3.31 mm ²	6.5	67	90	52

– Nominal outer diameters and weights are subject to manufacturing tolerances per UL 1424 / NFPA 70 (NEC Art. 760).

Electrical data

13 sizes

AWG & Cores	Max. DC R @ 20 °C Ω/km	Current in air A	Current in duct/tray A
2C × 18 AWG	21.400	7	6
4C × 18 AWG	21.400	6	5
2C × 16 AWG	13.500	10	9
4C × 16 AWG	13.500	8	7
2C × 14 AWG	8.450	15	13
4C × 14 AWG	8.450	12	10
2C × 12 AWG	5.310	20	17
2C × 18 AWG OAS	21.400	7	6
4C × 18 AWG OAS	21.400	6	5
2C × 16 AWG OAS	13.500	10	9
4C × 16 AWG OAS	13.500	8	7
2C × 14 AWG OAS	8.450	15	13
2C × 12 AWG OAS	5.310	20	17

– Current ratings apply at +30 °C ambient in free air and +25 °C in enclosed tray/conduit.

Standards and approvals

- ✓ UL 1424 Type FPLP
- ✓ NFPA 262 (UL 910) Plenum
- ✓ NFPA 70 (NEC Article 760)
- ✓ NFPA 72 National Fire Alarm Code
- ✓ RoHS 3 Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/fplp-plenum-fire-alarm-cable



Typical values for this cable type, based on UL 1424 / NFPA 70 (NEC Art. 760). Values for your order are confirmed in the quotation. Subject to change without notice.
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