

INSTRUMENT WIRE

PVC insulated, shielded; 105 °C (UL Listed)

Features:

- UL listed
- Flame retardant and not-propagating
- NEC art. 725, Class 2 & 3 electrical circuits and Class 1 Division 2 hazardous locations
- Resistant to acids, alkalis, oils, weather and sunlight

Applications:

- General purpose instrumentation cable
- Indoor/outdoor use

Specifications:

Construction

Conductors	:	1,4 mm ² (16 AWG) 7 strands, high conductivity bare copper wire, class B ITS 1990
Insulation	:	105° PVC, 0,4 mm nominal
Construction	:	twisted conductors
Lay of twist	:	pairs 55 mm, triad 65 mm nominal
Shield	:	0,05 mm polyester-backed aluminium tape, 100% coverage and 35% overlap
Drain wire	:	0,9 mm ² (18 AWG), 7 strands, tinned copper
Jacket	:	90°C PVC, 0,9 mm nominal
Standard colour code	:	pairs : black, white triads: black, white, red jacket : black

Electrical/Physical

Insulation passes 3000 V AC spark test.		
Completed construction passes a dielectric test of 2500 V AC for 10 sec (conductor to conductor and conductor to shield).		
Conductor resistance	:	13,4 Ohm/km nominal at 20°C
Capacitance (conductor to conductor)	:	160 nF/km nominal
Inductance	:	less than 1 mH/km
Circuit voltage rating	:	300 V max.
Operation temperature (max.)	:	insulation 105°C, jacket 90°C
Lower flexibility limit	:	-15°C
Flame test	:	flame retardant as per IPCEA S-61-402 and IEEE-383

Option

600V rating (UPN/ALPTw-16F-BX)

Dimensions and weight:

(nominal values)

	Conductor size			weight kg/km	min. bend radius
	AWG	Ø mm	mm ²		
Pair	16	6,7	1,4	60	38
Triad	16	7,5	1,4	75	41

Ordering code:

UP/ALPTW-16F-BX	9152731
UP/ALPTW-16F-BX triad	9152749

Other colour on request.