

PVC/Nylon 600 Volts 90°C PVC Jacket

Shielded Pairs with Individual and Overall Shield

PART NUMBER	NO. OF PAIRS	NOMINAL JACKET THICK. (INCHES)	NOMINAL OUTSIDE DIAMETER (INCHES)	NOMINAL WEIGHT 1000 FT. (POUNDS)	PULLING TENSION (POUNDS)
18 AWG					
02-0231	2	.047	.429	96	81
02-0232	4	.047	.498	139	149
02-0233	8	.062	.678	257	285
02-0234	10	.062	.794	314	353
02-0235	12	.062	.819	359	421
02-0236	16	.082	.951	490	558
02-0237	20	.082	1.053	592	694
02-0238	24	.082	1.169	695	830
02-0239	36	.082	1.336	978	1239
02-0240	50	.082	1.572	1314	1716
16 AWG					
02-0241	2	.047	.480	127	129
02-0242	3	.047	.514	145	183
02-0243	4	.062	.590	201	237
02-0244	6	.062	.694	270	350
02-0245	8	.062	.763	344	454
02-0246	10	.082	.937	455	537
02-0247	12	.082	.966	521	671
02-0248	16	.082	1.072	660	888
02-0249	20	.082	1.190	801	1105
02-0250	24	.082	1.323	944	1322
02-0251	36	.092	1.536	1370	1972
02-0252	50	.112	1.849	1914	2731

SIZE (AWG)	CONDUCTOR - CONDUCTOR PF / FT (NOMINAL)	CONDUCTOR - SHIELD PF / FT (NOMINAL)
18	30	57
16	35	66

SCOPE:

This Instrumentation Cables is UL listed under Article 340 of the NEC and is suitable for cable tray use in Class 1, Division 2 hazardous locations. The cable can be used in wet or dry locations and up to conductor temperatures of 90°C. The addition of nylon over the conductors provides excellent oil and gasoline protection.

The individually shielded pairs and triads are completely isolated from each other by use of a polyester tape. This isolation assures maximum protection from crosstalk and common mode interference. An overall shield provides additional protection.

The flame properties meet or exceed the requirements of both the UL 70,000 BTU vertical tray flame test and the comparable IEEE-383 flame test. A 210,000 BTU rating is also available upon request.

APPLICATIONS:

The cables can be used in trays, conduit, and wireways. They are sunlight resistant and suitable for direct burial. They are available with a PVC or CPE jacket.

CONSTRUCTION:

Class B, stranded per ASTM B-3 and ASTM B-8. Conductors are type TFN listed under UL 62. Available in tinned copper upon request.

PRIMARY INSULATION:

105°C rated PVC and nylon jacket

SHIELDING:

Each pair with individual drain wire is shielded with aluminum/polyester tape. All are isolated with an additional polyester tape. Overall shield is helically applied with 100% coverage with a tinned copper drain wire.

OVERALL JACKET:

PVC (90°C rated)
Ripcord is applied under the jacket to facilitate stripping.

COLOR CODING:

Pairs are color coded black and white.
One conductor in each pair or triad is number coded for ease of identification.

DATA:

Maximum DC Resistance @ 20°C #18 AWG #16 AWG
Ohms/1000 feet 6.64 4.18

Minimum Bend Radius (inches) = Nominal Cable Diameter x 12

Capacitance - Pairs (Triads will be 1 to 3 pf/ft higher than pairs)

NOTE: Specifications and weights are nominal and subject to standard industry tolerances.

»Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.

