

PVC 300 Volts 105°C

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)
20 AWG					
02-0328	2	.042	.349	66	52
02-0329	4	.052	.423	101	96
02-0330	8	.052	.543	170	484
02-0331	10	.062	.654	220	228
02-0332	12	.062	.674	250	272
02-0333	16	.062	.747	316	360
02-0334	20	.062	.827	382	448
02-0335	24	.072	.939	466	536
02-0336	36	.072	1.071	655	800
02-0337	50	.082	1.278	902	1108
18 AWG					
02-0338	2	.042	.382	84	81
02-0339	4	.042	.443	121	149
02-0340	8	.042	.577	211	285
02-0341	10	.062	.720	285	353
02-0342	12	.062	.743	327	421
02-0343	16	.062	.824	415	558
02-0344	20	.072	.935	521	694
02-0345	24	.072	1.038	614	830
02-0346	36	.072	1.187	870	1239
02-0347	50	.082	1.417	1201	1716
16 AWG					
02-0348	2	.052	.446	120	129
02-0349	4	.052	.516	174	237
02-0350	8	.062	.690	317	454
02-0351	10	.062	.808	388	537
02-0352	12	.062	.834	449	671
02-0353	16	.072	.948	592	888
02-0354	20	.072	1.053	721	1105
02-0355	24	.072	1.171	852	1322
02-0356	36	.082	1.362	1245	1972
02-0357	50	.082	1.603	1684	2731

SCOPE:

These Instrumentation Cables are UL listed under Article 725 of the NEC and are 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 105°C.

The individually shielded pairs and triads are completely isolated from each other by use of a polyester tape. This shielding 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 raceways or, when provided with a messenger, for aerial application. When increased mechanical, chemical, or environmental protection is required, a hermetically sealed aluminum tape or copper tape armor with an additional PCV or CPE jacket can be provided.

CONSTRUCTION:

Class B, stranded per ASTM B-3 and ASTM B-8
Orange communication wire is provided for calibration on 4 pair/triad and higher.
Available in tinned copper upon request.

PRIMARY INSULATION:

105°C rated PVC
Thickness: .015" nominal thickness

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 (105°C rated) or CPE (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 #20 AWG #18 AWG #16 AWG
Ohms / 1000 feet 10.5 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.

SIZE (AWG)	CONDUCTOR - CONDUCTOR PF / FT (NOMINAL)	CONDUCTOR - SHIELD PF / FT (NOMINAL)
20	20	32
18	23	40
16	27	48