

PVC 300 Volts 105°C

Shielded Triads with Individual and Overall Shield					
PART NUMBER	NO. OF TRIADS	NOMINAL JACKET THICK. (INCHES)	NOMINAL OUTSIDE DIAMETER (INCHES)	NOMINAL WEIGHT 1000 FT. (POUNDS)	PULLING TENSION (POUNDS)
20 AWG					
02-0391	2	.042	.357	77	68
02-0392	4	.052	.433	122	128
02-0393	8	.052	.556	212	249
02-0394	10	.062	.670	272	310
02-0395	12	.062	.690	313	370
02-0396	16	.062	.765	399	491
02-0397	20	.062	.849	485	612
02-0398	24	.072	.963	591	732
02-0399	36	.072	1.099	841	1095
02-0400	50	.082	1.275	1155	1518
18 AWG					
02-0401	2	.052	.431	108	106
02-0402	4	.052	.476	160	200
02-0403	8	.062	.635	293	389
02-0404	10	.062	.741	360	483
02-0405	12	.062	.764	416	577
02-0406	16	.062	.849	533	765
02-0407	20	.072	.963	671	953
02-0408	24	.072	1.070	793	1141
02-0409	36	.072	1.224	1137	1705
02-0410	50	.082	1.420	1565	2363
16 AWG					
02-0411	2	.052	.460	146	170
02-0412	4	.052	.533	221	320
02-0413	8	.062	.713	410	619
02-0414	10	.062	.836	504	769
02-0415	12	.062	.863	587	919
02-0416	16	.072	.981	777	1218
02-0417	20	.072	1.089	953	1518
02-0418	24	.072	1.212	1130	1817
02-0419	36	.082	1.410	1660	2715
02-0420	50	.082	1.613	2252	3764

SIZE (AWG)	CONDUCTOR - CONDUCTOR PF / FT (NOMINAL)	CONDUCTOR - SHIELD PF / FT (NOMINAL)
20	34	68
18	37	73
16	40	78

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 triad 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:

Triads are color coded black, white, and red.
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.