TYPE PLTC INSTRUMENTATION CABLE

PVC 300 Volts 105°C

Unshielded Pairs with an 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					
02-0295	1	.037	.212	27	25
02-0296	2	.037	.264	49	40
02-0297	4	.042	.353	74	74
02-0298	8	.052	.485	133	140
02-0299	10	.052	.529	158	172
02-0300	12	.052	.570	182	205
02-0301	16	.062	.662	243	270
02-0302	20	.062	.726	291	336
02-0303	24	.062	.783	338	401
02-0304	36	.072	.951	495	598
02-0305	50	.072	1.095	658	828
18 AWG					
02-0306	1	.037	.230	34	39
02-0307	2	.042	.302	67	64
02-0308	4	.052	.413	105	116
02-0309	8	.052	.541	176	220
02-0310	10	.052	.592	211	271
02-0311	12	.062	.659	257	323
02-0312	16	.062	.742	326	426
02-0313	20	.062	.851	393	530
02-0314	24	.072	.901	476	633
02-0315	36	.072	1.071	675	944
02-0316	50	.072	1.236	901	1306
16 AWG					
02-0317	1	.037	.254	47	62
02-0318	2	.042	.339	91	103
02-0319	4	.052	.464	142	268
02-0320	8	.062	.633	256	350
02-0321	10	.062	.693	307	433
02-0322	12	.062	.748	357	516
02-0323	16	.062	.844	454	681
02-0324	20	.072	.949	570	846
02-0325	24	.072	1.026	667	1011
02-0326	36	.072	1.224	956	1507
02-0327	50	.082	1.437	1314	2085

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 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.

PLTC type Instrumentation Cable can be used in type CL3 or CL2 applications.

CONSTRUCTION:
Class B, strand per ASTM B-3 and ASTM B-8
Pairs or triads are twisted with staggered lays to reduce crosstalk.
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

OVERALL SHIELD:
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 8

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.