

PLTC/ITC - 300 V - PVC Insulated, PVC Jacketed

Instrumentation PLTC / ITC, 300 V, PVC, 105°C - LEAD FREE, Unshielded Pairs or Triads with Overall Shield, Shielded Pairs or Triads with Overall Shield, Type PLTC - UL 13 - Type ITC - UL 2250

Description

Applications

The 300 V Instrumentation Cables are dual listed as Type PLTC per UL 13 and Type ITC per UL 2250. These cables are suitable for installations as outlined in NEC 2008 and NEC 2011 Article 725 for Type PLTC cables and NEC 2008 and NEC 2011 Article 727 for Type ITC cables. They are also a suitable substitute for General purpose Class 2 (CL2X) and Class 3 (CL3) wiring, as well as Dwelling unit Class 2 (CL2X) and Class 3 (CL3X) wiring as per NEC 2008 and NEC 2011 Article 725.

NEXANS Instrumentation Cables is LEAD FREE and RoHS compliant.

Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance to ASTM B8.

Insulation: Polyvinyl chloride in accordance with UL 13 and UL 2250, flame retardant, 105°C temperature rating.

Insulation Shield(on shielded pair/triad constructions): Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is two gauge sizes smaller than the circuit conductors. These shields are electrically isolated from each other.

Assembly: Pairs/triads are cabled in concentric layers. In the case of unshielded pairs/triads, they are cabled at staggered lengths to reduce crosstalk.

Communication Wire: Orange communication wire is provided for calibration on 4 pair / triad and higher.

Overall cable shield: Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is the same size as the circuit conductors, with the exception of single pair/triad constructions where the drain wire is two gauge sizes smaller than the circuit conductors.

Jacket: UL listed sunlight and moisture resistant, sequentially length marked, black, flame retardant polyvinyl chloride material. A nylon ripcord is included for ease of jacket removal.

Conductor Identification

Pairs: black/white and number coded

Triads: black/white/red and number coded

Bending Radius

Fixed Position: 5 x cable overall diameter

During Installation: 8 x cable overall diameter

Standards

National UL 13; UL 2250

PLTC/ITC - 300 V - PVC Insulated, PVC Jacketed

Characteristics

Construction characteristics	
Conductor material	Copper
Electrical characteristics	
Maximum operating voltage	300 V
Usage characteristics	
Maximum operating temperature	105 °C

Selling information

Options

The following constructions can be provided on special orders:

- Tinned copper conductors.
- When increased mechanical, chemical, or environmental protection is required, cables can be supplied with a continuously welded and corrugated impervious aluminum sheath armor and an outer PVC jacket.
- Interlocked aluminum armor with or without an additional outer PVC jacket.
- Direct Burial listed cable (when ordered as ITC/DB)
- Conductors with alternate color / identification codes
- Alternate jacket colors

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed Individual and Overall Shielded Pairs

Instrumentation PLTC / ITC, 300 V, PVC, 105°C - LEAD FREE, Unshielded Pairs or Triads with Overall Shield, Shielded Pairs or Triads with Overall Shield, Type PLTC - UL 13 - Type ITC - UL 2250

Description

Applications

The 300 V Instrumentation Cables are dual listed as Type PLTC per UL 13 and Type ITC per UL 2250. These cables are suitable for installations as outlined in NEC 2008 and NEC 2011 Article 725 for Type PLTC cables and NEC 2008 and NEC 2011 Article 727 for Type ITC cables. They are also a suitable substitute for General purpose Class 2 (CL2X) and Class 3 (CL3) wiring, as well as Dwelling unit Class 2 (CL2X) and Class 3 (CL3X) wiring as per NEC 2008 and NEC 2011 Article 725.

NEXANS Instrumentation Cables is LEAD FREE and RoHS compliant.

Standards

National UL 13; UL 2250

Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance to ASTM B8.

Insulation: Polyvinyl chloride in accordance with UL 13 and UL 2250, flame retardant, 105°C temperature rating.

Insulation Shield(on shielded pair/triad constructions): Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is two gauge sizes smaller than the circuit conductors. These shields are electrically isolated from each other.

Assembly: Pairs/triads are cabled in concentric layers. In the case of unshielded pairs/triads, they are cabled at staggered lengths to reduce crosstalk.

Communication Wire: Orange communication wire is provided for calibration on 4 pair / triad and higher.

Overall cable shield: Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is the same size as the circuit conductors, with the exception of single pair/triad constructions where the drain wire is two gauge sizes smaller than the circuit conductors.

Jacket: UL listed sunlight and moisture resistant, sequentially length marked, black, flame retardant polyvinyl chloride material. A nylon ripcord is included for ease of jacket removal.

Conductor Identification

Pairs: black/white and number coded

Triads: black/white/red and number coded

Bending Radius

Fixed Position: 5 x cable overall diameter

During Installation: 8 x cable overall diameter

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Individual and Overall Shielded Pairs

Characteristics

Construction characteristics	
Conductor material	Copper
Electrical characteristics	
Maximum operating voltage	300 V
Usage characteristics	
Maximum operating temperature	105 °C

Instrumentation PLTC / ITC, Shielded Pairs with an Overall Shield (SPOS), 300V

Part Number	# of Pairs	Conductor Size	Insulation Thickness		Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Maximum Pulling Tension	
			AWG	mils	mm	inches	mm	inches	mm	lb/kft	kg/km	lbf
669705	2	20 (7)	12	0.30	42	1.07	0.349	8.86	66	98	38	169
669820	4	20 (7)	12	0.30	52	1.32	0.423	10.74	101	150	73	325
669697	8	20 (7)	12	0.30	52	1.32	0.543	13.79	170	253	137	609
-----	10	20 (7)	12	0.30	62	1.57	0.654	16.61	220	327	172	765
671263	12	20 (7)	12	0.30	62	1.57	0.674	17.12	250	372	209	930
671362	16	20 (7)	12	0.30	62	1.57	0.747	18.97	316	470	274	1219
-----	20	20 (7)	12	0.30	62	1.57	0.827	21.01	382	568	343	1526
671370	24	20 (7)	12	0.30	72	1.83	0.939	23.85	466	693	416	1850
671388	36	20 (7)	12	0.30	72	1.83	1.071	27.20	655	975	617	2745
671396	50	20 (7)	12	0.30	82	2.08	1.278	32.46	902	1342	859	3821
669671	2	18 (7)	15	0.38	52	1.32	0.382	9.70	84	125	60	267
669689	4	18 (7)	15	0.38	52	1.32	0.443	11.25	121	180	115	512
669721	8	18 (7)	15	0.38	62	1.57	0.577	14.66	211	314	217	965
-----	10	18 (7)	15	0.38	62	1.57	0.720	18.29	285	424	273	1214
669713	12	18 (7)	15	0.38	62	1.57	0.743	18.87	327	487	333	1481
671404	16	18 (7)	15	0.38	62	1.57	0.824	20.93	415	618	435	1935
-----	20	18 (7)	15	0.38	72	1.83	0.935	23.75	521	775	545	2424
671412	24	18 (7)	15	0.38	72	1.83	1.038	26.37	614	914	660	2936
671420	36	18 (7)	15	0.38	72	1.83	1.187	30.15	870	1295	980	4359
671081	50	18 (7)	15	0.38	82	2.08	1.417	35.99	1201	1787	1363	6063
671222	2	16 (7)	15	0.38	52	1.32	0.446	11.33	120	179	96	427
671230	4	16 (7)	15	0.38	52	1.32	0.516	13.11	174	259	183	814
671248	8	16 (7)	15	0.38	62	1.57	0.690	17.53	317	472	346	1539
-----	10	16 (7)	15	0.38	62	1.57	0.808	20.52	388	577	434	1931
671255	12	16 (7)	15	0.38	62	1.57	0.834	21.18	449	668	529	2353
671438	16	16 (7)	15	0.38	72	1.83	0.948	24.08	592	881	692	3078
-----	20	16 (7)	15	0.38	72	1.83	1.053	26.75	721	1073	868	3861
671446	24	16 (7)	15	0.38	72	1.83	1.171	29.74	852	1268	1051	4675
671453	36	16 (7)	15	0.38	82	2.08	1.362	34.59	1245	1853	1560	6939
671487	50	16 (7)	15	0.38	82	2.08	1.603	40.72	1684	2506	2170	9653

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Individual and Overall Shielded Pairs

Selling information

Options

The following constructions can be provided on special orders:

- Tinned copper conductors.
- When increased mechanical, chemical, or environmental protection is required, cables can be supplied with a continuously welded and corrugated impervious aluminum sheath armor and an outer PVC jacket.
- Interlocked aluminum armor with or without an additional outer PVC jacket.
- Direct Burial listed cable (when ordered as ITC/DB)
- Conductors with alternate color / identification codes
- Alternate jacket colors

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed Individual and Overall Shielded Triads

Instrumentation PLTC / ITC, 300 V, PVC, 105°C - LEAD FREE, Unshielded Pairs or Triads with Overall Shield, Shielded Pairs or Triads with Overall Shield, Type PLTC - UL 13 - Type ITC - UL 2250

Description

Applications

The 300 V Instrumentation Cables are dual listed as Type PLTC per UL 13 and Type ITC per UL 2250. These cables are suitable for installations as outlined in NEC 2008 and NEC 2011 Article 725 for Type PLTC cables and NEC 2008 and NEC 2011 Article 727 for Type ITC cables. They are also a suitable substitute for General purpose Class 2 (CL2X) and Class 3 (CL3) wiring, as well as Dwelling unit Class 2 (CL2X) and Class 3 (CL3X) wiring as per NEC 2008 and NEC 2011 Article 725.

NEXANS Instrumentation Cables is LEAD FREE and RoHS compliant.

Standards

National UL 13; UL 2250

Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance to ASTM B8.

Insulation: Polyvinyl chloride in accordance with UL 13 and UL 2250, flame retardant, 105°C temperature rating.

Insulation Shield(on shielded pair/triad constructions): Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is two gauge sizes smaller than the circuit conductors. These shields are electrically isolated from each other.

Assembly: Pairs/triads are cabled in concentric layers. In the case of unshielded pairs/triads, they are cabled at staggered lengths to reduce crosstalk.

Communication Wire: Orange communication wire is provided for calibration on 4 pair / triad and higher.

Overall cable shield: Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is the same size as the circuit conductors, with the exception of single pair/triad constructions where the drain wire is two gauge sizes smaller than the circuit conductors.

Jacket: UL listed sunlight and moisture resistant, sequentially length marked, black, flame retardant polyvinyl chloride material. A nylon ripcord is included for ease of jacket removal.

Conductor Identification

Pairs: black/white and number coded

Triads: black/white/red and number coded

Bending Radius

Fixed Position: 5 x cable overall diameter

During Installation: 8 x cable overall diameter

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Individual and Overall Shielded Triads

Characteristics

Construction characteristics	
Conductor material	Copper
Electrical characteristics	
Maximum operating voltage	300 V
Usage characteristics	
Maximum operating temperature	105 °C

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Individual and Overall Shielded Triads

Shielded Triads with an Overall Shield (STOS), 300V

Part Number	# of Triads	Conductor Size AWG	Insulation Thickness		Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Maximum Pulling Tension	
			mils	mm	mils	mm	inches	mm	lb/kft	kg/km	lbf	N
-----	2	20 (7)	12	0.30	42	1.07	0.357	9.07	77	115	46	204
693770	4	20 (7)	12	0.30	52	1.32	0.433	11	122	182	97	432
693788	8	20 (7)	12	0.30	52	1.32	0.556	14.12	212	315	194	863
-----	10	20 (7)	12	0.30	62	1.57	0.670	17.02	272	405	237	1054
693796	12	20 (7)	12	0.30	62	1.57	0.690	17.53	313	466	283	1259
693804	16	20 (7)	12	0.30	62	1.57	0.765	19.43	399	594	380	1690
-----	20	20 (7)	12	0.30	62	1.57	0.849	21.56	485	722	474	2108
-----	24	20 (7)	12	0.30	72	1.83	0.963	24.46	591	880	571	2540
-----	36	20 (7)	12	0.30	72	1.83	1.099	27.91	841	1252	854	3799
-----	50	20 (7)	12	0.30	82	2.08	1.275	32.39	1155	1719	1185	5271
-----	2	18 (7)	15	0.38	52	1.32	0.431	10.95	108	161	73	325
669495	4	18 (7)	15	0.38	52	1.32	0.476	12.09	160	238	154	685
676403	8	18 (7)	15	0.38	62	1.57	0.635	16.13	293	436	308	1371
-----	10	18 (7)	15	0.38	62	1.57	0.741	18.82	360	536	376	1674
671054	12	18 (7)	15	0.38	62	1.57	0.764	19.41	416	619	449	1998
-----	16	18 (7)	15	0.38	62	1.57	0.849	21.56	533	793	603	2684
-----	20	18 (7)	15	0.38	72	1.83	0.963	24.46	671	999	753	3348
671040	24	18 (7)	15	0.38	72	1.83	1.070	27.18	793	1180	907	4033
669929	36	18 (7)	15	0.38	72	1.83	1.224	31.09	1137	1692	1356	6032
-----	50	18 (7)	15	0.38	82	2.08	1.420	36.07	1565	2329	1882	8370
-----	2	16 (7)	15	0.38	52	1.32	0.460	11.68	146	217	116	517
671271	4	16 (7)	15	0.38	52	1.32	0.533	13.53	221	329	245	1091
671693	8	16 (7)	15	0.38	62	1.57	0.713	18.11	410	610	491	2182
-----	10	16 (7)	15	0.38	62	1.57	0.836	21.23	504	750	599	2665
672063	12	16 (7)	15	0.38	62	1.57	0.863	21.92	587	874	715	3181
-----	16	16 (7)	15	0.38	72	1.83	0.981	24.92	777	1156	960	4272
-----	20	16 (7)	15	0.38	72	1.83	1.089	27.66	953	1418	1198	5329
631846	24	16 (7)	15	0.38	72	1.83	1.212	30.78	1130	1682	1443	6420
-----	36	16 (7)	15	0.38	82	2.08	1.410	35.81	1660	2470	2159	9602
-----	50	16 (7)	15	0.38	82	2.08	1.613	40.97	2252	3351	2995	13323

Selling information

Options

The following constructions can be provided on special orders:

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Individual and Overall Shielded Triads

- Tinned copper conductors.
- When increased mechanical, chemical, or environmental protection is required, cables can be supplied with a continuously welded and corrugated impervious aluminum sheath armor and an outer PVC jacket.
- Interlocked aluminum armor with or without an additional outer PVC jacket.
- Direct Burial listed cable (when ordered as ITC/DB)
- Conductors with alternate color / identification codes
- Alternate jacket colors

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed Overall Shielded Pairs

Instrumentation PLTC / ITC, 300 V, PVC, 105°C - LEAD FREE, Unshielded Pairs or Triads with Overall Shield, Shielded Pairs or Triads with Overall Shield, Type PLTC - UL 13 - Type ITC - UL 2250

Description

Applications

The 300 V Instrumentation Cables are dual listed as Type PLTC per UL 13 and Type ITC per UL 2250. These cables are suitable for installations as outlined in NEC 2008 and NEC 2011 Article 725 for Type PLTC cables and NEC 2008 and NEC 2011 Article 727 for Type ITC cables. They are also a suitable substitute for General purpose Class 2 (CL2X) and Class 3 (CL3) wiring, as well as Dwelling unit Class 2 (CL2X) and Class 3 (CL3X) wiring as per NEC 2008 and NEC 2011 Article 725.

NEXANS Instrumentation Cables is LEAD FREE and RoHS compliant.

Standards

National UL 13; UL 2250

Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance to ASTM B8.

Insulation: Polyvinyl chloride in accordance with UL 13 and UL 2250, flame retardant, 105°C temperature rating.

Insulation Shield(on shielded pair/triad constructions): Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is two gauge sizes smaller than the circuit conductors. These shields are electrically isolated from each other.

Assembly: Pairs/triads are cabled in concentric layers. In the case of unshielded pairs/triads, they are cabled at staggered lengths to reduce crosstalk.

Communication Wire: Orange communication wire is provided for calibration on 4 pair / triad and higher.

Overall cable shield: Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is the same size as the circuit conductors, with the exception of single pair/triad constructions where the drain wire is two gauge sizes smaller than the circuit conductors.

Jacket: UL listed sunlight and moisture resistant, sequentially length marked, black, flame retardant polyvinyl chloride material. A nylon ripcord is included for ease of jacket removal.

Conductor Identification

Pairs: black/white and number coded

Triads: black/white/red and number coded

Bending Radius

Fixed Position: 5 x cable overall diameter

During Installation: 8 x cable overall diameter

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Overall Shielded Pairs

Characteristics

Construction characteristics	
Conductor material	Copper
Electrical characteristics	
Maximum operating voltage	300 V
Usage characteristics	
Maximum operating temperature	105 °C

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed Overall Shielded Pairs

Unshielded Pairs with an Overall Shield (POS), 300V

Part Number	# of Pairs	Conductor Size	Insulation Thickness		Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Maximum Pulling Tension	
			AWG	mils	mm	mils	mm	inches	mm	lb/kft	kg/km	lbf
669606	1	20 (7)	12	0.30	37	0.94	0.212	5.38	27	40	16	73
-----	2	20 (7)	12	0.30	37	0.94	0.264	6.71	49	73	33	145
671206	4	20 (7)	12	0.30	42	1.07	0.353	8.97	74	110	57	254
671219	8	20 (7)	12	0.30	52	1.32	0.485	12.32	133	198	106	472
-----	10	20 (7)	12	0.30	52	1.32	0.529	13.44	158	235	131	581
671180	12	20 (7)	12	0.30	52	1.32	0.570	14.48	182	271	163	726
671305	16	20 (7)	12	0.30	62	1.57	0.662	16.81	243	362	212	944
676494	20	20 (7)	12	0.30	62	1.57	0.726	18.44	291	433	261	1162
671313	24	20 (7)	12	0.30	62	1.57	0.783	19.89	338	503	318	1416
671339	36	20 (7)	12	0.30	72	1.83	0.951	24.16	495	737	473	2105
671347	50	20 (7)	12	0.30	72	1.83	1.095	27.81	658	979	653	2904
669614	1	18 (7)	15	0.38	37	0.94	0.230	5.84	34	51	26	115
669739	2	18 (7)	15	0.38	42	1.07	0.302	7.67	67	100	52	231
671123	4	18 (7)	15	0.38	52	1.32	0.413	10.49	105	156	91	404
669633	8	18 (7)	15	0.38	52	1.32	0.541	13.74	176	262	168	749
-----	10	18 (7)	15	0.38	52	1.32	0.592	15.04	211	314	207	922
671115	12	18 (7)	15	0.38	62	1.57	0.670	17.02	258	384	259	1153
676411	16	18 (7)	15	0.38	62	1.57	0.742	18.85	326	485	337	1499
-----	20	18 (7)	15	0.38	62	1.57	0.851	21.62	393	585	415	1845
671107	24	18 (7)	15	0.38	72	1.83	0.901	22.89	476	708	505	2248
671099	36	18 (7)	15	0.38	72	1.83	1.071	27.2	675	1005	752	3344
671065	50	18 (7)	15	0.38	72	1.83	1.236	31.39	901	1341	1037	4612
669580	1	16 (7)	15	0.38	37	0.94	0.254	6.45	47	70	41	184
671156	2	16 (7)	15	0.38	42	1.07	0.339	8.61	91	135	83	367
671198	4	16 (7)	15	0.38	52	1.32	0.464	11.79	142	211	144	643
671164	8	16 (7)	15	0.38	62	1.57	0.633	16.08	256	381	268	1194
-----	10	16 (7)	15	0.38	62	1.57	0.693	17.60	307	457	330	1469
671172	12	16 (7)	15	0.38	62	1.57	0.748	19.00	357	531	413	1836
672220	16	16 (7)	15	0.38	62	1.57	0.844	21.44	454	676	537	2387
-----	20	16 (7)	15	0.38	72	1.83	0.949	24.10	570	848	660	2938
671297	24	16 (7)	15	0.38	72	1.83	1.026	26.06	667	993	805	3581
671131	36	16 (7)	15	0.38	72	1.83	1.224	31.09	956	1423	1197	5325
671149	50	16 (7)	15	0.38	82	2.08	1.437	36.50	1314	1955	1651	7345

Selling information

Options

The following constructions can be provided on special orders:

- Tinned copper conductors.

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Overall Shielded Pairs

- When increased mechanical, chemical, or environmental protection is required, cables can be supplied with a continuously welded and corrugated impervious aluminum sheath armor and an outer PVC jacket.
- Interlocked aluminum armor with or without an additional outer PVC jacket.
- Direct Burial listed cable (when ordered as ITC/DB)
- Conductors with alternate color / identification codes
- Alternate jacket colors

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed Overall Shielded Triads

Instrumentation PLTC / ITC, 300 V, PVC, 105°C - LEAD FREE, Unshielded Pairs or Triads with Overall Shield, Shielded Pairs or Triads with Overall Shield, Type PLTC - UL 13 - Type ITC - UL 2250

Description

Applications

The 300 V Instrumentation Cables are dual listed as Type PLTC per UL 13 and Type ITC per UL 2250. These cables are suitable for installations as outlined in NEC 2008 and NEC 2011 Article 725 for Type PLTC cables and NEC 2008 and NEC 2011 Article 727 for Type ITC cables. They are also a suitable substitute for General purpose Class 2 (CL2X) and Class 3 (CL3) wiring, as well as Dwelling unit Class 2 (CL2X) and Class 3 (CL3X) wiring as per NEC 2008 and NEC 2011 Article 725.

NEXANS Instrumentation Cables is LEAD FREE and RoHS compliant.

Standards

National UL 13; UL 2250

Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance to ASTM B8.

Insulation: Polyvinyl chloride in accordance with UL 13 and UL 2250, flame retardant, 105°C temperature rating.

Insulation Shield(on shielded pair/triad constructions): Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is two gauge sizes smaller than the circuit conductors. These shields are electrically isolated from each other.

Assembly: Pairs/triads are cabled in concentric layers. In the case of unshielded pairs/triads, they are cabled at staggered lengths to reduce crosstalk.

Communication Wire: Orange communication wire is provided for calibration on 4 pair / triad and higher.

Overall cable shield: Aluminum foil/polyester shield helically wrapped to provide 100% coverage with a tinned copper drain wire that is the same size as the circuit conductors, with the exception of single pair/triad constructions where the drain wire is two gauge sizes smaller than the circuit conductors.

Jacket: UL listed sunlight and moisture resistant, sequentially length marked, black, flame retardant polyvinyl chloride material. A nylon ripcord is included for ease of jacket removal.

Conductor Identification

Pairs: black/white and number coded

Triads: black/white/red and number coded

Bending Radius

Fixed Position: 5 x cable overall diameter

During Installation: 8 x cable overall diameter

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Overall Shielded Triads

Characteristics

Construction characteristics	
Conductor material	Copper
Electrical characteristics	
Maximum operating voltage	300 V
Usage characteristics	
Maximum operating temperature	105 °C

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed Overall Shielded Triads

Instrumentation PLTC/ITC, Unshielded Triads with an Overall Shield (TOS), 300 V

Part Number	# of Triads	Conductor Size	Insulation Thickness		Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Maximum Pulling Tension	
		AWG	mils	mm	mils	mm	inches	mm	lb/kft	kg/km	lbf	N
669747	1	20 (7)	12	0.30	37	0.94	0.222	5.64	33	49	24	109
-----	2	20 (7)	12	0.30	42	1.07	0.357	9.07	70	104	41	181
-----	4	20 (7)	12	0.30	52	1.32	0.433	11	107	159	82	363
-----	8	20 (7)	12	0.30	52	1.32	0.556	14.12	181	269	163	726
-----	10	20 (7)	12	0.30	62	1.57	0.670	17.02	233	347	196	871
-----	12	20 (7)	12	0.30	62	1.57	0.690	17.53	266	396	237	1053
-----	16	20 (7)	12	0.30	62	1.57	0.765	19.43	336	500	318	1416
-----	20	20 (7)	12	0.30	62	1.57	0.849	21.56	406	604	392	1742
-----	24	20 (7)	12	0.30	72	1.83	0.963	24.46	496	738	473	2105
-----	36	20 (7)	12	0.30	72	1.83	1.099	27.91	698	1039	710	3158
-----	50	20 (7)	12	0.30	82	2.08	1.312	33.32	961	1430	979	4356
669622	1	18 (7)	15	0.38	37	0.94	0.242	6.15	42	63	39	173
-----	2	18 (7)	15	0.38	52	1.32	0.413	10.49	96	143	65	288
675256	4	18 (7)	15	0.38	52	1.32	0.476	12.09	141	210	130	576
675215	8	18 (7)	15	0.38	62	1.57	0.635	16.13	254	378	259	1153
-----	10	18 (7)	15	0.38	62	1.57	0.741	18.82	311	463	311	1384
-----	12	18 (7)	15	0.38	62	1.57	0.764	19.41	358	533	376	1672
-----	16	18 (7)	15	0.38	62	1.57	0.849	21.56	454	676	505	2248
-----	20	18 (7)	15	0.38	72	1.83	0.963	24.46	571	850	622	2767
-----	24	18 (7)	15	0.38	72	1.83	1.070	27.18	674	1003	752	3344
-----	36	18 (7)	15	0.38	72	1.83	1.224	31.09	958	1426	1128	5015
-----	50	18 (7)	15	0.38	82	2.08	1.462	37.13	1321	1966	1555	6918
669598	1	16 (7)	15	0.38	37	0.94	0.267	6.78	58	86	62	275
-----	2	16 (7)	15	0.38	52	1.32	0.460	11.68	126	188	103	459
687907	4	16 (7)	15	0.38	52	1.32	0.533	13.54	192	286	206	918
671321	8	16 (7)	15	0.38	62	1.57	0.713	18.11	352	524	413	1836
-----	10	16 (7)	15	0.38	62	1.57	0.836	21.23	432	643	495	2203
-----	12	16 (7)	15	0.38	62	1.57	0.863	21.92	500	744	599	2663
688093	16	16 (7)	15	0.38	72	1.83	0.981	24.92	661	984	805	3581
-----	20	16 (7)	15	0.38	72	1.83	1.089	27.66	807	1201	991	4407
-----	24	16 (7)	15	0.38	72	1.83	1.212	30.78	954	1420	1197	5325
-----	36	16 (7)	15	0.38	82	2.08	1.410	35.81	1396	2077	1796	7988
-----	50	16 (7)	15	0.38	92	2.34	1.681	42.70	1923	2862	2477	11017

Selling information

Options

The following constructions can be provided on special orders:

- Tinned copper conductors.

PLTC / ITC - 300 V - PVC Insulated, PVC Jacketed

Overall Shielded Triads

- When increased mechanical, chemical, or environmental protection is required, cables can be supplied with a continuously welded and corrugated impervious aluminum sheath armor and an outer PVC jacket.
- Interlocked aluminum armor with or without an additional outer PVC jacket.
- Direct Burial listed cable (when ordered as ITC/DB)
- Conductors with alternate color / identification codes
- Alternate jacket colors