

250V FLAME RETARDANT UNARMORED AL/PS TAPE SCREENED CABLE

250V Shielded pairs/triads instrumentation, 90°C temperature rating, low smoke, halogen-free, flame retardant, ABS, DNV-GL, Lloyd, Rina approved



APPLICATION STANDARD

DESIGN GUIDE: IEC 60092-350/353

CONDUCTOR: IEC 60228 CLASS 2

INSULATION: IEC 60092-351 (XLPE)

SHEATH: IEC 60092-359 (SHF1)

FLAME RETARDANT: IEC 60332-1/3 CAT.A

FIRE RESISTANT: IEC 60331-1/2/21

HALOGEN FREE: IEC 60754-1, $\leq 0.5\%$

LOW SMOKE: IEC 61034, $> 60\%$

COLD BEND/IMPACT: CSA 22.2 NO. 03 (-40°C/-35°C)

EEE 45, IEEE 1580

CONSTRUCTION



Conductor

Stranded bare annealed copper wire
Tinned copper conductor option available
Class 5 Flexible conductor option available

Insulation

Cross-Linked polyethylene (XLPE)
Black, White w/number color code (pairs)
Black, White, Red w/number color code (triads)

Individual screen

AL/PS Tape w/tinned copper drain wire

Overall screen

AL/PS Tape w/tinned copper drain wire

Sheath

Black polyolefin SH1

250V FLAME RETARDANT UNARMORED AL/PS TAPE SCREENED CABLE

250V (IC): INDIVIDUAL & COMMON SCREENED PAIRS

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG)	INCHES	MM	LBS/MFT	KG/KM
(C)1P20AWG(0.75MM2)	1	20	0.27	6.9	40	60
(C)2P20AWG(0.75MM2)	2	20	0.43	10.9	81	120
(C)3P20AWG(0.75MM2)	3	20	0.46	11.7	108	160
(C)4P20AWG(0.75MM2)	4	20	0.5	12.8	134	200
(C)7P20AWG(0.75MM2)	7	20	0.62	15.8	208	310
(C)8P20AWG(0.75MM2)	8	20	0.68	17.2	235	350
(C)10P20AWG(0.75MM2)	10	20	0.78	19.7	289	430
(C)12P20AWG(0.75MM2)	12	20	0.8	20.4	329	490
(C)14P20AWG(0.75MM2)	14	20	0.84	21.4	370	550
(C)16P20AWG(0.75MM2)	16	20	0.91	23	423	630
(C)19P20AWG(0.75MM2)	19	20	0.92	23.4	477	710
(C)24P20AWG(0.75MM2)	24	20	1.07	27.2	598	890
(C)30P20AWG(0.75MM2)	30	20	1.14	29	726	1080
(C)32P20AWG(0.75MM2)	32	20	1.16	29.5	766	1140
(C)37P20AWG(0.75MM2)	37	20	1.22	31.1	874	1300
(C)1P18AWG(1.0MM2)	1	18	0.29	7.3	47	70
(C)2P18AWG(1.0MM2)	2	18	0.47	11.8	101	150
(C)3P18AWG(1.0MM2)	3	18	0.49	12.5	128	190
(C)4P18AWG(1.0MM2)	4	18	0.54	13.6	155	230
(C)7P18AWG(1.0MM2)	7	18	0.67	17.1	255	380
(C)8P18AWG(1.0MM2)	8	18	0.72	18.3	289	430
(C)10P18AWG(1.0MM2)	10	18	0.83	21.1	349	520
(C)12P18AWG(1.0MM2)	12	18	0.86	21.9	396	590
(C)14P18AWG(1.0MM2)	14	18	0.91	23.1	457	680
(C)16P18AWG(1.0MM2)	16	18	0.97	24.6	511	760
(C)19P18AWG(1.0MM2)	19	18	1	25.3	591	880
(C)24P18AWG(1.0MM2)	24	18	1.15	29.3	746	1110
(C)30P18AWG(1.0MM2)	30	18	1.23	31.3	900	1340
(C)32P18AWG(1.0MM2)	32	18	1.25	31.8	954	1420
(C)37P18AWG(1.0MM2)	37	18	1.32	33.6	1089	1620

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

250V FLAME RETARDANT UNARMORED AL/PS TAPE SCREENED CABLE

250V (IC): INDIVIDUAL & COMMON SCREENED PAIRS

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF PAIRS	SIZE (AWG)	INCHES	MM	LBS/MFT	KG/KM
(C)1P16AWG(1.5MM2)	1	16	0.33	8.3	60	90
(IC)2P16AWG(1.5MM2)	2	16	0.54	13.6	128	190
(IC)3P16AWG(1.5MM2)	3	16	0.58	14.6	168	250
(IC)4P16AWG(1.5MM2)	4	16	0.63	15.9	208	310
(IC)7P16AWG(1.5MM2)	7	16	0.79	20	336	500
(IC)8P16AWG(1.5MM2)	8	16	0.85	21.5	383	570
(IC)10P16AWG(1.5MM2)	10	16	0.98	24.9	470	700
(IC)12P16AWG(1.5MM2)	12	16	1.02	25.9	538	800
(IC)14P16AWG(1.5MM2)	14	16	1.07	27.1	605	900
(IC)16P16AWG(1.5MM2)	16	16	1.15	29.1	692	1030
(IC)19P16AWG(1.5MM2)	19	16	1.17	29.7	786	1170
(IC)24P16AWG(1.5MM2)	24	16	1.37	34.7	1001	1490
(IC)30P16AWG(1.5MM2)	30	16	1.46	37	1216	1810
(IC)32P16AWG(1.5MM2)	32	16	1.48	37.6	1283	1910
(IC)37P16AWG(1.5MM2)	37	16	1.56	39.7	1465	2180
(C)1P14AWG(2.5MM2)	1	14	0.37	9.3	81	120
(IC)2P14AWG(2.5MM2)	2	14	0.6	15.2	175	260
(IC)3P14AWG(2.5MM2)	3	14	0.63	16.1	228	340
(IC)4P14AWG(2.5MM2)	4	14	0.7	17.8	289	430
(IC)7P14AWG(2.5MM2)	7	14	0.88	22.3	470	700
(IC)8P14AWG(2.5MM2)	8	14	0.95	24.1	538	800
(IC)10P14AWG(2.5MM2)	10	14	1.1	27.9	659	980
(IC)12P14AWG(2.5MM2)	12	14	1.14	28.9	759	1130
(IC)14P14AWG(2.5MM2)	14	14	1.2	30.5	874	1300
(IC)16P14AWG(2.5MM2)	16	14	1.28	32.6	988	1470
(IC)19P14AWG(2.5MM2)	19	14	1.32	33.5	1136	1690
(IC)24P14AWG(2.5MM2)	24	14	1.54	39.1	1445	2150
(IC)30P14AWG(2.5MM2)	30	14	1.64	41.7	1761	2620
(IC)32P14AWG(2.5MM2)	32	14	1.67	42.4	1861	2770
(IC)37P14AWG(2.5MM2)	37	14	1.76	44.6	2123	3160

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

250V FLAME RETARDANT UNARMORED AL/PS TAPE SCREENED CABLE

250V (IC): INDIVIDUAL & COMMON SCREENED TRIADS

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF TRIADS	SIZE (AWG)	INCHES	MM	LBS/MFT	KG/KM
(C)1P16AWG(1.5MM2)	1	20	0.3	7.5	54	80
(IC)2P16AWG(1.5MM2)	2	20	0.46	11.7	101	150
(IC)3P16AWG(1.5MM2)	3	20	0.49	12.4	134	200
(IC)4P16AWG(1.5MM2)	4	20	0.54	13.6	161	240
(IC)7P16AWG(1.5MM2)	7	20	0.71	17.9	276	410
(IC)8P16AWG(1.5MM2)	8	20	0.75	19.1	309	460
(IC)10P16AWG(1.5MM2)	10	20	0.85	21.6	370	550
(IC)12P16AWG(1.5MM2)	12	20	0.91	23	430	640
(IC)14P16AWG(1.5MM2)	14	20	0.94	23.9	491	730
(IC)16P16AWG(1.5MM2)	16	20	1.01	25.7	558	830
(IC)19P16AWG(1.5MM2)	19	20	1.09	27.8	652	970
(IC)24P16AWG(1.5MM2)	24	20	1.21	30.8	806	1200
(IC)30P16AWG(1.5MM2)	30	20	1.34	34	995	1480
(IC)32P16AWG(1.5MM2)	32	20	1.38	35.1	1048	1560
(IC)37P16AWG(1.5MM2)	37	20	1.46	37	1203	1790
(C)1P14AWG(2.5MM2)	1	18	0.32	8	60	90
(IC)2P14AWG(2.5MM2)	2	18	0.5	12.6	128	190
(IC)3P14AWG(2.5MM2)	3	18	0.53	13.4	161	240
(IC)4P14AWG(2.5MM2)	4	18	0.58	14.8	202	300
(IC)7P14AWG(2.5MM2)	7	18	0.77	19.6	343	510
(IC)8P14AWG(2.5MM2)	8	18	0.82	20.9	383	570
(IC)10P14AWG(2.5MM2)	10	18	0.93	23.6	457	680
(IC)12P14AWG(2.5MM2)	12	18	0.99	25.1	538	800
(IC)14P14AWG(2.5MM2)	14	18	1.03	26.1	611	910
(IC)16P14AWG(2.5MM2)	16	18	1.11	28.1	692	1030
(IC)19P14AWG(2.5MM2)	19	18	1.19	30.3	813	1210
(IC)24P14AWG(2.5MM2)	24	18	1.32	33.6	1008	1500
(IC)30P14AWG(2.5MM2)	30	18	1.46	37.1	1243	1850
(IC)32P14AWG(2.5MM2)	32	18	1.52	38.6	1330	1980
(IC)37P14AWG(2.5MM2)	37	18	1.59	40.4	1505	2240

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250V (IC): INDIVIDUAL & COMMON SCREENED TRIADS

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF TRIADS	SIZE (AWG)	INCHES	MM	LBS/MFT	KG/KM
(C)1T16AWG(1.5MM)	1	16	0.36	9.2	81	120
(IC)2T16AWG(1.5MM)	2	16	0.58	14.6	168	250
(IC)3T16AWG(1.5MM)	3	16	0.61	15.5	215	320
(IC)4T16AWG(1.5MM)	4	16	0.68	17.2	269	400
(IC)7T16AWG(1.5MM)	7	16	0.89	22.7	457	680
(IC)8T16AWG(1.5MM)	8	16	0.95	24.2	511	760
(IC)10T16AWG(1.5MM)	10	16	1.09	27.6	625	930
(IC)12T16AWG(1.5MM)	12	16	1.15	29.1	726	1080
(IC)14T16AWG(1.5MM)	14	16	1.2	30.5	827	1230
(IC)16T16AWG(1.5MM)	16	16	1.29	32.7	934	1390
(IC)19T16AWG(1.5MM)	19	16	1.39	35.3	1102	1640
(IC)24T16AWG(1.5MM)	24	16	1.55	39.3	1378	2050
(IC)30T16AWG(1.5MM)	30	16	1.71	43.4	1693	2520
(IC)32T16AWG(1.5MM)	32	16	1.78	45.1	1808	2690
(IC)37T16AWG(1.5MM)	37	16	1.87	47.4	2063	3070
(C)1T14AWG(2.5MM2)	1	14	0.4	10.1	114	170
(IC)2T14AWG(2.5MM2)	2	14	0.63	16.1	222	330
(IC)3T14AWG(2.5MM2)	3	14	0.69	17.4	302	450
(IC)4T14AWG(2.5MM2)	4	14	0.75	19.1	376	560
(IC)7T14AWG(2.5MM2)	7	14	1	25.5	645	960
(IC)8T14AWG(2.5MM2)	8	14	1.08	27.3	732	1090
(IC)10T14AWG(2.5MM2)	10	14	1.22	31.1	887	1320
(IC)12T14AWG(2.5MM2)	12	14	1.3	33	1048	1560
(IC)14T14AWG(2.5MM2)	14	14	1.35	34.4	1189	1770
(IC)16T14AWG(2.5MM2)	16	14	1.46	37	1357	2020
(IC)19T14AWG(2.5MM2)	19	14	1.57	39.9	1593	2370
(IC)24T14AWG(2.5MM2)	24	14	1.75	44.4	1996	2970
(IC)30T14AWG(2.5MM2)	30	14	1.94	49.3	2473	3680
(IC)32T14AWG(2.5MM2)	32	14	2.01	51	2627	3910
(IC)37T14AWG(2.5MM2)	37	14	2.11	53.6	2997	4460

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