



INTERNATIONAL
MUNICIPAL SIGNAL
ASSOCIATION
(IMSA) CABLES

IMSA Catalog



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*Available upon special request.

Spec 19-1 and 20-1 Signal Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Cabled Conductors
Shield	None
Jacket	PVC Black PE
Spec 19-1	
Spec 20-1	



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-1

601455	2	14	solid	.325	8.26	.045	1.14	58	86
601457	2	14	7 strand	.341	8.66	.045	1.14	63	94
601176	3	14	solid	.342	8.69	.045	1.14	75	112
601203	3	14	7 strand	.357	9.07	.045	1.14	81	121
601321	4	14	solid	.372	9.45	.045	1.14	94	140
601137	4	14	7 strand	.389	9.89	.045	1.14	98	146
601177	5	14	solid	.406	10.31	.045	1.14	113	168
601204	5	14	7 strand	.420	10.67	.045	1.14	113	168
601179	7	14	solid	.440	11.18	.045	1.14	146	217
601205	7	14	7 strand	.464	11.79	.045	1.14	154	229
601180	9	14	solid	.511	12.98	.045	1.14	186	277
601352	9	14	7 strand	.571	14.50	.060	1.52	212	315
601181	10	14	solid	.586	14.88	.060	1.52	220	327
601206	10	14	7 strand	.586	14.88	.060	1.52	227	338
601948	11	14	7 strand	.618	15.70	.060	1.52	250	372
601182	12	14	solid	.603	15.31	.060	1.52	254	378
601207	12	14	7 strand	.636	16.15	.060	1.52	267	397
601208	14	14	7 strand	.668	16.97	.060	1.52	304	452
601671	15	14	solid	.667	16.94	.060	1.52	311	463
601539	15	14	7 strand	.704	17.88	.060	1.52	328	488
601415	16	14	solid	.667	16.94	.060	1.52	325	484
601320	16	14	7 strand	.704	17.88	.060	1.52	341	507
601826	19	14	solid	.701	17.81	.060	1.52	375	558
601480	19	14	7 strand	.741	18.82	.060	1.52	393	585
601633	20	14	solid	.737	18.72	.060	1.52	395	588
601443	20	14	7 strand	.779	19.79	.060	1.52	415	617
601209	21	14	7 strand	.779	19.79	.060	1.52	432	643
601534	25	14	solid	.796	20.22	.060	1.52	478	711
601890	25	14	7 strand	.918	23.32	.080	1.52	544	809
601334	2	12	solid	.382	9.70	.045	1.14	58	86
601448	2	12	7 strand	.397	10.08	.045	1.14	87	129

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Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-1 (continued)

601456	3	12	solid	.398	10.11	.045	1.14	108	161
601431	3	12	7 strand	.420	10.67	.045	1.14	113	168
601189	4	12	solid	.439	11.15	.045	1.14	135	201
601466	4	12	7 strand	.459	11.66	.045	1.14	141	210
601190	5	12	solid	.480	12.19	.045	1.14	163	243
601410	5	12	7 strand	.503	12.78	.045	1.14	172	256
601192	7	12	solid	.555	14.10	.060	1.52	237	353
601213	7	12	7 strand	.579	14.71	.060	1.52	244	363
601193	9	12	solid	.640	16.26	.060	1.52	281	418
601468	9	12	7 strand	.673	17.09	.060	1.52	310	461
601930	10	12	7 strand	.726	18.44	.060	1.52	338	503
601496	12	12	solid	.711	18.06	.060	1.52	372	553
601214	12	12	7 strand	.753	19.13	.060	1.52	393	585
601358	16	12	solid	.793	20.14	.060	1.52	449	668
581719	19	12	7 strand	.918	23.32	.080	2.03	625	930
601578	20	12	solid	.922	23.42	.080	2.03	631	939
601591	2	10	solid	.421	10.70	.045	1.14	110	164
603061	2	10	7 strand	.443	11.25	.045	1.14	118	176
601570	3	10	solid	.445	11.30	.045	1.14	150	223
603314	3	10	7 strand	.469	11.91	.045	1.14	155	231
581665	4	10	7 strand	.542	13.77	.060	1.52	216	321
580314	5	10	7 strand	.596	15.14	.060	1.52	263	391

IMSA Spec 20-1

582015	5	18	7 strand	.354	8.99	.045	1.14	60	89
582024	2	16	solid	.299	7.59	.045	1.14	39	58
581761	7	16	7 strand	.419	10.64	.045	1.14	102	152
582021	20	16	7 strand	.696	17.68	.060	1.52	278	414
601140	2	14	solid	.250	6.35	.045	1.14	52	77
601194	2	14	7 strand	.341	8.66	.045	1.14	55	82
601141	3	14	solid	.342	8.69	.045	1.14	66	98
601195	3	14	7 strand	.359	9.12	.045	1.14	71	106
601142	4	14	solid	.372	9.45	.045	1.14	85	126
601196	4	14	7 strand	.391	9.93	.045	1.14	88	131
601143	5	14	solid	.406	10.31	.045	1.14	103	153
601197	5	14	7 strand	.430	10.92	.045	1.14	108	161
601144	6	14	solid	.440	11.18	.045	1.14	118	176
603131	6	14	7 strand	.464	11.79	.045	1.14	127	189
601145	7	14	solid	.440	11.18	.045	1.14	136	202
601198	7	14	7 strand	.464	11.79	.045	1.14	141	210
601146	8	14	solid	.476	12.09	.045	1.14	155	231
601610	8	14	7 strand	.507	12.88	.045	1.14	160	238
601147	9	14	solid	.511	12.98	.045	1.14	172	256
601429	9	14	7 strand	.571	14.50	.060	1.52	192	286
601148	10	14	solid	.586	14.88	.060	1.52	197	293
601199	10	14	7 strand	.592	15.04	.060	1.52	205	305
601150	12	14	solid	.603	15.32	.060	1.52	232	345
601200	12	14	7 strand	.636	16.15	.060	1.52	244	363

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Spec 19-1 and 20-1 Signal Cable (continued)

Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 20-1 (continued)									
580307	14	14	7 strand	.668	16.97	.060	1.52	280	417
601153	15	14	solid	.667	16.94	.060	1.52	284	423
601331	15	14	7 strand	.704	17.88	.060	1.52	302	449
601154	16	14	solid	.667	16.94	.060	1.52	299	445
601201	16	14	7 strand	.704	17.88	.060	1.52	316	470
601157	19	14	solid	.701	17.81	.060	1.52	348	518
601454	19	14	7 strand	.741	18.82	.060	1.52	366	545
601158	20	14	solid	.737	18.72	.060	1.52	370	550
601202	20	14	7 strand	.779	19.79	.060	1.52	387	576
603870	21	14	solid	.737	18.72	.060	1.52	384	571
582020	21	14	7 strand	.779	19.79	.060	1.52	405	603
601594	25	14	solid	.796	20.22	.060	1.52	450	670
581694	26	14	7 strand	.925	23.50	.080	1.52	518	771
601411	2	12	solid	.384	9.75	.045	1.14	74	110
601210	2	12	7 strand	.397	10.08	.045	1.14	74	110
601412	3	12	solid	.402	10.21	.045	1.14	99	147
601211	3	12	7 strand	.420	10.67	.045	1.14	103	153
601417	4	12	solid	.440	11.18	.045	1.14	124	184
601467	4	12	7 strand	.459	11.66	.045	1.14	130	193
601322	5	12	solid	.480	12.19	.045	1.14	152	226
601325	5	12	7 strand	.503	12.78	.045	1.14	159	237

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Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 20-1 (continued)									
601186	7	12	solid	.561	14.25	.060	1.52	212	315
601326	7	12	7 strand	.579	14.71	.060	1.52	222	330
601475	9	12	7 strand	.677	17.20	.060	1.52	284	423
601518	10	12	solid	.690	17.52	.060	1.52	296	440
601316	10	12	7 strand	.686	17.42	.060	1.52	309	460
601188	12	12	solid	.711	18.06	.060	1.52	346	515
601212	12	12	7 strand	.753	19.13	.060	1.52	367	546
601329	16	12	7 strand	.876	22.25	.080	2.03	501	745
601563	19	12	7 strand	.929	23.60	.080	2.03	582	866
601583	20	12	7 strand	.976	24.80	.080	2.03	618	919
601900	21	12	7 strand	.976	24.80	.080	2.03	643	957
580106	25	12	7 strand	1.080	27.43	.080	2.03	751	1117
601540	2	10	7 strand	.443	11.25	.045	1.14	107	159
581356	3	10	solid	.429	10.90	.045	1.14	135	201
601569	4	10	7 strand	.514	13.06	.045	1.14	185	275
601820	7	10	7 strand	.648	16.46	.060	1.52	321	478
601605	2	8	solid	.475	12.07	.045	1.14	146	217
601430	2	8	19 strand	.505	12.83	.045	1.14	150	223
603298	3	8	19 strand	.508	12.90	.045	1.14	195	290
581710	7	8	solid	.696	17.68	.060	1.52	454	675

Other conductor counts and AWG sizes (solid or stranded) available upon request.

Spec 19-2 and 20-2 Signal and Communications Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Twisted Pairs
Shield	Corrugated Copper Tape
Jacket	
Spec 19-2	PVC
Spec 20-2	Black PE



Part No.	No. of Pairs	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-2									
601324	1	14	7 strand	.410	10.41	.045	1.14	87	129
IMSA Spec 20-2									
580902	5	19	7 strand	.600	15.24	.060	1.52	138	205
601622	6	19	solid	.626	15.90	.060	1.52	152	226
601530	6	19	7 strand	.666	16.92	.060	1.52	160	238
601510	3	16	solid	.590	14.99	.060	1.52	135	201
601227	6	16	solid	.740	18.80	.060	1.52	343	510
601446	12	16	solid	.940	23.88	.080	2.03	406	604
601428	25	16	solid	1.280	32.51	.080	2.03	740	1101
601481	3	14	solid	.640	16.26	.060	1.52	173	257
603723	4	14	solid	.690	17.53	.060	1.52	212	315
601617	6	14	solid	.880	22.35	.080	2.03	317	472

Other pair counts and AWG sizes (solid or stranded) available upon request.

Spec 19-3 and 20-3 Self-supporting Signal Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Cabled Conductors
Shield	None
Integrated Messenger[^]	1/4" (.250") 7-wire extra high strength (6,650 lb. test) flooded galvanized steel strand
Jacket	
Spec 19-3	PVC
Spec 20-3	Black PE

[^]Utilizes 0.134" (3.4mm) solid extra high strength (2,800 lb. test) galvanized steel wire which is permitted for cables 12 AWG, 3 conductors or less, or 14 AWG, 4 conductors or less.



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-3

581722 [^]	4	14	solid	.383 x .737	9.73 x 18.7	.045	1.14	170	253
603234	7	14	7 strand	.475 x .945	12.1 x 24.0	.045	1.14	321	478
603407	9	14	solid	.520 x .990	13.2 x 25.2	.045	1.14	356	530
581857 [^]	2	12	7 strand	.405 x .759	10.3 x 19.3	.045	1.14	170	253
581854	5	12	7 strand	.511 x .981	13.0 x 24.9	.045	1.14	220	327

IMSA Spec 20-3

603515	3	14	7 strand	.361 x .825	9.17 x 21.0	.045	1.14	221	329
601850	4	14	solid	.377 x .841	9.58 x 21.4	.045	1.14	285	424
601928 [^]	4	14	solid	.383 x .737	9.73 x 18.7	.045	1.14	194	289
601216	5	14	solid	.410 x .874	10.4 x 22.2	.045	1.14	256	381
601217	7	14	solid	.445 x .909	11.3 x 23.1	.045	1.14	289	430
601491	7	14	7 strand	.469 x .933	11.9 x 23.7	.045	1.14	295	439
601337	9	14	solid	.517 x .981	13.1 x 24.9	.045	1.14	328	488
601218	10	14	solid	.593 x 1.057	15.1 x 26.9	.060	1.52	355	528
603804	10	14	7 strand	.590 x 1.060	15.0 x 26.9	.060	1.52	366	545
601437	12	14	solid	.610 x 1.077	15.5 x 27.4	.060	1.52	388	577
601338	16	14	solid	.670 x 1.140	17.0 x 29.0	.060	1.52	456	678
601219	20	14	solid	.745 x 1.209	18.9 x 30.7	.060	1.52	528	786
603458	3	12	7 strand	.418 x .883	10.6 x 22.4	.045	1.14	258	384
601479	5	12	solid	.480 x .944	12.2 x 24.0	.045	1.14	307	457
601472	7	12	solid	.519 x .983	13.2 x 25.0	.045	1.14	356	530
603730	7	12	7 strand	.546 x 1.010	13.9 x 25.7	.060	1.52	362	539
601587	12	12	solid	.711 x 1.175	18.1 x 29.9	.060	1.52	502	747

Other conductor counts and AWG sizes (solid or stranded) available upon request.

Spec 19-4 and 20-4 Self-supporting Signal and Communications Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Twisted Pairs
Shield	Corrugated Copper Tape
Integrated Messenger[^]	1/4" (.250") 7-wire extra high strength (6,650 lb. test) flooded galvanized steel strand
Jacket	
Spec 19-4	PVC
Spec 20-4	Black PE



Part No.	No. of Pairs	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-4

581967	3	16	7 strand	.626 x 1.096	15.9 x 27.8	.060	1.52	340	506
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IMSA Spec 20-4

582018	5	19	7 strand	.606 x 1.076	15.4 x 27.3	.060	1.52	298	443
603668	6	19	7 strand	.666 x 1.136	16.9 x 28.9	.045	1.14	315	469
581570	2	16	solid	.566 x 1.036	14.4 x 26.3	.060	1.52	267	397
601339	3	16	solid	.586 x 1.056	14.9 x 26.8	.060	1.52	292	434
581959	3	16	7 strand	.626 x 1.096	15.9 x 27.8	.060	1.52	298	443
601340	6	16	solid	.686 x 1.156	17.4 x 29.4	.060	1.52	374	556
601500	4	14	7 strand	.736 x 1.206	18.7 x 30.6	.060	1.52	380	565

Other pair counts and AWG sizes (solid or stranded) available upon request.

Spec 19-5 and 20-5 Signal Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Cabled Conductors
Shield	Corrugated Copper Tape
Inner Jacket	Polyethylene
Outer Jacket	
Spec 19-5	PVC
Spec 20-5	Black PE



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Inner Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-5

603164	4	14	solid	.566	14.38	.041	1.04	168	250
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IMSA Spec 20-5

601221	4	14	solid	.566	14.38	.041	1.04	150	223
580708	3	10	7 strand	.666	16.92	.045	1.14	220	327
603057	4	10	solid	.684	17.37	.045	1.14	267	397

Minimum average outer jacket thickness is .060 inches (1.52mm).
Other conductor counts and AWG sizes (solid or stranded) available upon request.

Spec 19-6 and 20-6 Signal Communications Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Twisted Pairs
Shield	Corrugated Copper Tape
Inner Jacket	Polyethylene
Outer Jacket	
Spec 19-6	PVC
Spec 20-6	Black PE



Part No.	No. of Pairs	AWG	Solid or Stranded	Nominal OD		Min. Avg. Inner Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 19-6

581978	2	16	solid	.650	16.51	.041	1.52	211	314
601460	2	14	solid	.685	17.40	.041	1.52	196	292

IMSA Spec 20-6

581922	3	19	solid	.616	15.65	.041	1.04	130	193
581329	2	18	7 strand	.626	15.90	.041	1.04	126	187
580088	6	18	solid	.736	18.69	.041	1.04	209	311
580065	6	18	7 strand	.786	19.96	.041	1.04	218	324
601222	3	16	solid	.650	16.51	.041	1.04	166	247
601458	6	16	solid	.795	20.19	.041	1.04	252	375

Minimum average outer jacket thickness is .060 inches (1.52mm).
Other pair counts and AWG sizes (solid or stranded) available upon request.

Spec 39-6 and 40-6 Communications Cable

Spec 39-6 Communications Cable is available upon special request.

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Twisted Pairs
Shield	Corrugated Copper Tape
Inner Jacket	Polyethylene
Outer Jacket	
Spec 39-6	PVC
Spec 40-6	Black PE



Part No.	No. of Pairs	AWG	Solid or Stranded	Nominal OD		Min. Avg. Outer Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 40-6

603414	12	19	solid	.756	19.20	.060	1.52	248	369
603569	18	19	solid	.890	22.61	.080	2.03	352	524

Minimum average inner jacket thickness is .041 inches (1.04mm).

Other pair counts and AWG sizes (solid or stranded) available upon request.

Spec 39-2 and 40-2 Communications Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Twisted Pairs
Shield	Corrugated Copper Tape
Jacket	
Spec 39-2	PVC
Spec 40-2	Black PE



Part No.	No. of Pairs	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

IMSA Spec 39-2

580481	3	19	solid	.422	10.72	.045	1.14	87	129
581718	3	19	7 strand	.454	11.53	.045	1.14	91	135
603434	6	19	solid	.510	12.95	.045	1.14	132	196
581164	12	19	7 strand	.686	17.42	.060	1.52	237	353
581855	3	16	7 strand	.586	14.89	.060	1.52	154	229
581751	12	16	solid	.890	22.61	.080	2.03	415	617
581258	25	16	solid	1.140	28.96	.080	2.03	744	1107

IMSA Spec 40-2

603555	3	19	solid	.424	10.77	.045	1.14	77	115
580125	3	19	7 strand	.444	11.28	.045	1.14	80	119
580382	4	19	solid	.504	12.80	.045	1.14	93	138
580040	4	19	7 strand	.480	12.19	.045	1.14	93	138
603385	6	19	solid	.565	14.35	.060	1.52	132	196
580120	6	19	7 strand	.514	13.06	.045	1.14	119	177
603480	12	19	solid	.666	16.92	.060	1.52	205	305
603403	25	19	solid	.820	20.82	.060	1.52	369	549
603482	25	19	7 strand	1.010	25.65	.080	2.03	422	628
603104	6	16	solid	.666	16.92	.060	1.52	200	298
603994	6	16	7 strand	.683	17.35	.060	1.52	208	309
603223	12	16	solid	.890	22.60	.080	2.03	365	543

Other pair counts and AWG sizes (solid or stranded) available upon request.

Spec 39-4 and 40-4 Communications Cable

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	Polyethylene
Color Code	Per Specification
Conductor Configuration	Twisted Pairs
Shield	Corrugated Copper Tape
Integrated Messenger	1/4" (.250") 7-wire extra high strength (6,650 lb. test) flooded galvanized steel strand
Jacket	PVC Spec 39-4 Black PE Spec 40-4



Part No.	No. of Pairs	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches/ (mm)		Inches	mm	Lbs./ 1000'	Kg/ Km
IMSA Spec 39-4									
603343	6	19	solid	.520 x .990 (13.21 x 25.15)		.060	1.52	306	455
IMSA Spec 40-4									
603680	3	19	solid	.430 x .900 (10.92 x 22.86)		.045	1.14	229	341
603155	6	19	solid	.520 x .990 (13.21 x 25.15)		.045	1.14	276	411
603149	12	19	solid	.666 x 1.360 (16.92 x 34.55)		.060	1.52	355	528
580950	12	19	7 strand	.686 x 1.156 (17.42 x 29.36)		.060	1.52	371	552
603568	18	19	solid	.756 x 1.230 (19.20 x 31.24)		.060	1.52	442	658
581735	6	18	7 strand	.626 x 1.096 (15.90 x 27.84)		.060	1.52	325	484
601975	6	16	solid	.666 x 1.136 (16.92 x 28.85)		.060	1.52	355	528
603993	6	16	7 strand	.686 x 1.156 (17.42 x 29.36)		.060	1.52	340	506

Other pair counts and AWG sizes (solid or stranded) available upon request.

Spec 26-3 and 28-3 Aerial Self-Supporting Cable

Product Specifications

Conductors	
Spec 26-3	Solid Hard Drawn Bare Copper
Spec 28-3	Solid Copper Clad Steel
Insulation	Black High-Density Polyethylene (HDPE)
Conductor Configurations	Single Conductor



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD Inches/ (mm)	Min. Avg. Jacket Thickness		Approx. Weight	
					Inches	mm	Lbs./1000'	Kg/Km
IMSA Spec 26-3								
601499	1	10	solid	.163 (4.14)	.030	.76	37	55
IMSA Spec 28-3								
601224	1	12	solid	.140 (3.56)	.027	.69	23	34
601223	1	10	solid	.162 (4.11)	.027	.69	35	52

Other AWG sizes available upon request.

Spec 29-1, 29-2, 29-3 and 29-4 Aerial Self-Supporting "C" Wire

Product Specifications

Conductors	
Spec 29-1, 29-3	Solid Hard Drawn Bare Copper
Spec 29-2, 29-4	Solid Copper Clad Steel
Insulation	Black High-Density Polyethylene (HDPE)
Conductor Configurations	Two Conductors Parallel
Outer Jacket	
Spec 29-3, 29-4	Red Fade-Resistant PVC

Spec 29-1, Spec 29-2



Spec 29-3, Spec 29-4



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD Inches/ (mm)	Min. Avg. Jacket Thickness		Approx. Weight	
					Inches	mm	Lbs./1000'	Kg/Km
IMSA Spec 29-1								
601364	2	12	solid	.175 x .317 (4.45 x 8.05)	.045	1.14	56	83
IMSA Spec 29-2								
601257	2	14	solid	.155 x .283 (3.94 x 7.19)	.040	1.02	37	55
601256	2	12	solid	.170 x .317 (4.32 x 8.05)	.040	1.02	52	77
IMSA Spec 29-3								
601803	2	14	solid	.215 x .343 (5.46 x 8.71)	.027	.69	55	82
601406	2	12	solid	.235 x .377 (5.97 x 9.58)	.027	.69	74	110
601450	2	10	solid	.268 x .440 (6.81 x 11.18)	.033	.83	108	161
IMSA Spec 29-4								
601259	2	14	solid	.215 x .343 (5.46 x 8.71)	.027	.69	53	79
601258	2	12	solid	.235 x .377 (5.97 x 9.58)	.027	.69	70	104

14 AWG IMSA 29-1 available upon request.

Spec 50-2 Loop Detector Wire

Product Specifications

Conductors	Solid or Stranded Tinned Copper
Insulation	Polyethylene
Color Code	Black/Natural
Conductor Configuration	Twisted Pair
Shield	Aluminum/Mylar Tape
Outer Jacket	Black Low-Density Polyethylene



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km
IMSA Spec 50-2									
603980	2	18	16 strand	.285	7.24	.030	.76	35	52
603133	2	16	19 strand	.309	7.85	.030	.76	39	58
601765	2	14	19 strand	.330	8.38	.030	.76	50	74
581061	2	14	19 strand	.360	9.14	.045	1.14	57	85
603378	2	12	19 strand	.382	9.70	.030	.76	76	113

Solid conductors available upon request.

Spec 51-1 and 51-3 Loop Detector Wire

Spec 51-1 Loop Detector Wire is available upon special request.

Product Specifications

Conductors	Solid or Stranded Bare Copper
Insulation	PVC/Nylon
Spec 51-1	
Spec 51-3	Black Cross-linked Polyethylene
Conductor Configuration	Single Conductor



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km
IMSA Spec 51-3									
582100	1	14	19 strand	.136	3.45	.030	.76	17	25

Other AWG sizes (solid or stranded) available upon request.

Spec 51-5 and 51-7 Loop Detector Wire

Product Specifications

Conductors	Stranded Bare Copper
Insulation	PVC/Nylon
Spec 51-5	
Spec 51-7	Black Cross-linked Polyethylene
Conductor Configuration	Single Conductor
Outer Jacket	Black PVC or Polyethylene Tube



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km
IMSA Spec 51-5 (PVC Tube)									
580206	1	14	19 strand	.250	6.35	.030	.76	27	40
580706	1	12	19 strand	.250	6.35	.030	.76	36	54
IMSA Spec 51-5 (PE Tube)									
580263	1	14	19 strand	.250	6.35	.030	.76	29	43
582116	1	12	19 strand	.250	6.35	.030	.76	39	58
IMSA Spec 51-7 (PVC Tube)									
581923	1	14	19 strand	.250	6.35	.030	.76	31	46
IMSA Spec 51-7 (PE Tube)									
582115	1	14	19 strand	.250	6.35	.030	.76	33	49

12 AWG 51-7 available upon request.

CALTRANS Type 2 Traffic Loop Wire (Spec 51-5 and 51-7)

Product Specifications

Conductors	Stranded Bare Copper
Insulation	PVC/Nylon Spec 51-5 Black Cross-linked Polyethylene Spec 51-7
Conductor Configuration	Single Conductor
Outer Jacket	Black PVC or Polyethylene Tube



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

CALTRANS Type 2 / IMSA Spec 51-5 (PVC Tube)									
580206	1	14	19 strand	.250	6.35	.030	.76	27	40
CALTRANS Type 2 / IMSA Spec 51-5 (PE Tube)									
580263	1	14	19 strand	.250	6.35	.030	.76	29	43
CALTRANS Type 2 / IMSA Spec 51-7 (PVC Tube)									
581923	1	14	19 strand	.250	6.35	.030	.76	31	46
CALTRANS Type 2 / IMSA Spec 51-7 (PE Tube)									
582115	1	14	19 strand	.250	6.35	.030	.76	33	49

CALTRANS Type B Lead-In Cable

Product Specifications

Conductors	Stranded Tinned Copper
Insulation	Black High-Density Polyethylene
Color Code	Black/Natural
Conductor Configuration	Twisted Pair
Shield	Aluminum/Mylar Tape
Outer Jacket	Black High-Density Polyethylene



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

CALTRANS Type B									
603916	2	16	19 strand	.275	6.99	.033	.84	40	60

CALTRANS Type C Lead-In Cable (Spec 50-2)

Product Specifications

Conductors	Stranded Tinned Copper
Insulation	Polyethylene
Color Code	Black/Natural
Conductor Configuration	Twisted Pair
Shield	Aluminum/Mylar Tape
Outer Jacket	Black Low-Density Polyethylene



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

CALTRANS Type C / IMSA Spec 50-2									
603133	2	16	19 strand	.309	7.85	.030	.76	39	58

CALTRANS Signal Cable

Product Specifications

Conductors	Solid Bare Copper
Insulation	PVC/Nylon
Color Code	Per Specification
Conductor Configuration	Cabled Conductors
Outer Jacket	Black Low-Density Polyethylene



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

CALTRANS Signal Cable									
580228	3	14	solid	.321	8.15	.045	1.14	67	100
3CSC									
580229	5	14	solid	.380	9.65	.045	1.14	101	150
5CSC									
580374	1	12	solid	.508	12.90	.060	1.52	184	274
9CSC +8									
580157	1	12	solid	.580	14.73	.060	1.52	251	373
12CSC +11									
580159	1	10	solid	.833	21.16	.080	2.03	527	784
28CSC +27									

Vehicle Detector Cable

Product Specifications

Conductors	Stranded Bare Copper
Insulation	High-Density Polyethylene
Color Code	Black, Red, White, Green
Conductor Configuration	Cabled Conductors
Shield	Aluminum/Mylar Tape
Part No. 7992A	Unshielded
Part No. 7993A	
Outer Jacket	Black High-Density Polyethylene
Filled	Yes

Shielded



Unshielded



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

Vehicle Detector Cable

7992A	4	18	7 strand	.234	5.94	.024	.61	37	55
7993A	4	18	7 strand	.218	5.54	.024	.61	35	52

Optical Detector Cable

Product Specifications

Conductors	Stranded Tinned Copper
Insulation	High-Density Polyethylene
Color Code	Yellow, Blue, Orange
Conductor Configuration	Cabled Conductors
Shield	Aluminum/Mylar Tape
Outer Jacket	Black UV Resistant PVC

Suitable for Direct Burial and Aerial use (messenger wire required).



Part No.	No. of Cond.	AWG	Solid or Stranded	Nominal OD		Min. Avg. Jacket Thickness		Approx. Weight	
				Inches	mm	Inches	mm	Lbs./1000'	Kg/Km

Optical Detector Cable, 600V

580461	3	20	7 strand	.280	7.11	.045	1.14	42	62
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Color Codes

IMSA Cabled Conductors

Cond. No.	Insulation Color	Stripe Color
1	Black	—
2	White	—
3	Red	—
4	Green	—
5	Orange	—
6	Blue	—
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White
13	Red	White
14	Green	White
15	Blue	White
16	Black	Red
17	White	Red
18	Orange	Red
19	Blue	Red
20	Red	Green
21	Orange	Green
22	Black	—
23	White	—
24	Red	—
25	Green	—

Cables per IMSA Specs:
19-1, 19-3, 19-5, 20-1, 20-3, 20-5

This color code uses only six different insulation colors. Different colored single stripes identify conductors numbered 7 through 21. The sequence is repeated in cables having more than 21 conductors. The repeat sequence conductors are identifiable by their location in the concentric layers of conductors in the cable assembly; the lower conductor numbers being in the center of innermost layers; the higher conductor numbers being in the outer layers.

IMSA Twisted Pairs

Pair No.	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Slate
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Slate
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Slate
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Slate
21	Violet & Blue
22	Violet & Orange
23	Violet & Green
24	Violet & Brown
25	Violet & Slate

Cables per IMSA Specs:
19-2, 19-4, 19-6, 20-2, 20-4, 20-6, 39-2, 39-4, 39-6, 40-2, 40-4, 40-6

This color code uses only ten different insulation colors: five for the "wire color" conductors in twisted pairs; five for the "mate color" conductors in twisted pairs. The "wire color" and "mate color" combinations produce twenty-five uniquely color-coded twisted pairs.

CALTRANS 3-Conductor

Cond. No.	Color	Tracer
1	Blue	Black
2	Blue	Orange
3	White	Black

CALTRANS 5-Conductor

Cond. No.	Color	Tracer
1	Red	—
2	Yellow	—
3	Brown	—
4	Black	—
5	White	—

CALTRANS 9-Conductor

Cond. No.	Color	Tracer
1	White	—
2	Red	—
3	Yellow	—
4	Brown	—
5	Red	Black
6	Yellow	Black
7	Brown	Black
8	Black	—
9	White	Black

CALTRANS 12-Conductor

Cond. No.	Color	Tracer
1	White	—
2	Red	—
3	Yellow	—
4	Brown	—
5	Black	—
6	Black	White
7	Black	Red
8	Red	Black
9	Yellow	Black
10	Brown	Black
11	Red	White
12	Brown	White

CALTRANS 28-Conductor

Cond. No.	Color	Tracer
1	White	—
2	Red	Black
3	Yellow	Black
4	Brown	Black
5	Red	Orange
6	Yellow	Orange
7	Brown	Orange
8	Red	Silver
9	Yellow	Silver
10	Brown	Silver
11	Red	Purple
12	Yellow	Purple
13	Brown	Purple
14	White	Black
15	Black	Red
16	Red	(2) Black
17	Brown	(2) Black
18	Red	(2) Orange
19	Brown	(2) Orange
20	Red	(2) Silver
21	Brown	(2) Silver
22	Red	(2) Purple
23	Brown	(2) Purple
24	Blue	Black
25	Blue	Orange
26	Blue	Silver
27	Blue	Purple
28	Black	—

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581722	19-3	3	601198	20-1	1	601415	19-1	1	601820	20-1	2	603870	20-1	2
581735	40-4	7	601199	20-1	1	601417	20-1	2	601826	19-1	1	603916	CALTRANS Type B	10
581751	39-2	6	601200	20-1	1	601428	20-2	2	601850	20-3	3	603980	50-2	9
581761	20-1	1	601201	20-1	2	601429	20-1	1	601890	19-1	1	603993	40-4	7
581854	19-3	3	601202	20-1	2	601430	20-1	2	601900	20-1	2	603994	40-2	6
581855	39-2	6	601203	19-1	1	601431	19-1	1						
581857	19-3	3	601204	19-1	1	601437	20-3	3						
581922	20-6	4	601205	19-1	1	601443	19-1	1						
581923	51-7	9, 10	601206	19-1	1	601446	20-2	2						
581959	20-4	3	601207	19-1	1	601448	19-1	1						
581967	19-4	3	601208	19-1	1	601450	29-3	8						
581978	19-6	4	601209	19-1	1	601454	20-1	2						
582015	20-1	1	601210	20-1	2	601455	19-1	1						
582018	20-4	3	601211	20-1	2	601456	19-1	1						
582020	20-1	2	601212	20-1	2	601457	19-1	1						
582021	20-1	1	601213	19-1	1	601458	20-6	4						

Cables shown in this catalog were formerly produced by Independent Cable, Inc. (ICI), purchased by Belden Inc. in 1996.

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U.S. Customer Service: 800-BELDEN-1 (800-235-3361)**UNITED STATES****Division Headquarters—Americas**

2200 U.S. Highway 27 South
Richmond, IN 47374
Phone: 765-983-5200
Inside Sales: 800-235-3361
Fax: 765-983-5294
info@belden.com
web: www.belden.com

ASIA/PACIFIC**Australia**

Level 10
369 Royal Parade
Parkville, Victoria 3052
Australia
Phone: 613-9341-0900
Fax: 613-9347-8274
australia.sales@belden.com

Beijing

Rm 1015
Office Tower Beijing Capital
Times Square
No. 88 West Changan Ave.
Beijing 100031
People's Republic of China
Phone: 8610-8391-5181-3
Fax: 8610-8391-5186
hongkong.sales@belden.com

Hong Kong

Unit 4401, 44F
Cosco Tower
Grand Millennium Plaza
183 Queen's Road Central
Hong Kong
Phone: 852-2955-0128
Fax: 852-2907-6933
hongkong.sales@belden.com

India

16th Floor, Tower B,
Unitech Cyberpark
Sector 39, Gurgaon
Haryana, India
Phone: 91-124-4509999
Fax: 91-124-4509900
india.sales@belden.com

Shanghai

Unit 2605
Harbour Ring Plaza
18 Xi Zang Zhong Road Shanghai
200001
People's Republic of China
Phone: 8621-5385-3355
Fax: 8621-6249-0879
hongkong.sales@belden.com

Singapore

101 Thomson Road
#21-01 United Square
Singapore 307591
Phone: 65-6251-8211
Fax: 65-6251-5010
singapore.sales@belden.com

CANADA**Cobourg**

130 Willmott Street
Cobourg, Ontario K9A 4M3
Canada
Phone: 905-372-8713
Fax: 905-372-6291
salescobourg@belden.com

Montreal

2345 Boulevard des Sources
Pointe Claire, Quebec
Canada H9R 5Z3
Phone: 800-681-6131
Fax: 514-822-7968
ibdn.info@belden.com

EUROPE/AFRICA/MIDDLE EAST**France**

Immeuble le Cesar
20, Place Louis Pradel
69001 Lyon
France
Phone: 33-472-109-990
Fax: 33-478-298-409
venlo.salesinfo@belden.com

Italy

Via Paracelso, 26
Centro Direzionale Colleoni
Palazzo Cassiopea Ingr. 3
20041 Agrate Brianza (MI)
Italy
Phone: 39-039-656-0911
Fax: 39-029-656-0929
venlo.salesinfo@belden.com

Africa/Middle East

Dubai Internet City
Building One, Office 216
Dubai
United Arab Emirates
Phone: 97-14-391-0490
Fax: 97-14-391-8775
sales@belden.ae

The Netherlands**Division Headquarters – Europe**

Edisonstraat 9, Postbus 9
5928 PG Venlo, 5900 AA
The Netherlands
Phone: 31-773-878-555
Fax: 31-773-878-448
venlo.salesinfo@belden.com

United Kingdom

3000 Manchester Business Park
Aviator Way
Manchester M22 5TG
United Kingdom
Phone: +44-161-266-1115
Fax: +44-161-266-1339
venlo.salesinfo@belden.com

LATIN AMERICA AND THE CARIBBEAN ISLANDS**Regional Office**

6100 Hollywood Boulevard
Suite 110
Hollywood, Florida 33024
Phone: 954-987-5044
Fax: 954-987-8022
salesla@belden.com

Mexico

Insurgentes Sur 800, Piso 9
Colonia del Valle
03100 Mexico, D.F.
Mexico
Phone: 5255-5523-7733
Fax: 5255-5528-8077
salesmex@belden.com

Brazil

Av. Rebouças
1023 — 4 Andar
05401-300 Sao Paulo, SP Brasil
Phone: 5511-3061-3099
Fax: 5511-3061-3752
salesBRZL@belden.com