

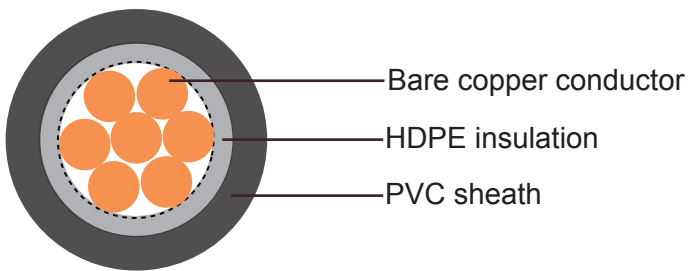


# IMSA 19-1 (Traffic Signal Cable)

## Application

These cables are suitable for outdoor or indoor use in traffic signal, traffic control systems, fire alarm systems, underground conduit and aerial use with messenger. Rated for 600 Volts 75°C wet or dry locations.

## Cable Construction



- **Conductor:** Solid bare copper per ASTM B-3 or stranded bare copper per ASTM B-8, & B-174
- **Insulation:** High density polyethylene (HDPE)
- **Sheath:** Black polyvinyl chloride (PVC)

## Color Code

Conductor No.	Insulation Color	Stripe Color	Conductor No.	Insulation Color	Stripe Color
1	Black	–	14	Green	White
2	White	–	15	Blue	White
3	Red	–	16	Black	Red
4	Green	–	17	White	Red
5	Orange	–	18	Orange	Red
6	Blue	–	19	Blue	Red
7	White	Black	20	Red	Green
8	Red	Black	21	Orange	Green





Conductor No.	Insulation Color	Stripe Color	Conductor No.	Insulation Color	Stripe Color
9	Green	Black	22	Black	–
10	Orange	Black	23	White	–
11	Blue	Black	24	Red	–
12	Black	White	25	Green	–
13	Red	White			

## Temperature Rating

75°C

## Voltage Rating

600 V

## Cable Parameter

AWG	No. of Conductor	Solid or Stranded	Insulation Thickness		Sheath thickness		Overall Diameter		Cable Weight	
			inches	mm	inches	mm	inches	mm	Lbs./Kft	Kg/Km
14	2	solid	0.025	0.64	0.045	1.14	0.325	8.26	58	86
14	2	7strand	0.025	0.64	0.045	1.14	0.341	8.66	63	94
14	3	solid	0.025	0.64	0.045	1.14	0.342	8.69	75	112
14	3	7strand	0.025	0.64	0.045	1.14	0.357	9.07	81	121
14	4	solid	0.025	0.64	0.045	1.14	0.372	9.45	94	140
14	4	7strand	0.025	0.64	0.045	1.14	0.389	9.89	98	146
14	5	solid	0.025	0.64	0.045	1.14	0.406	10.31	113	168
14	5	7strand	0.025	0.64	0.045	1.14	0.42	10.67	113	168
14	7	solid	0.025	0.64	0.045	1.14	0.44	11.18	146	217
14	7	7strand	0.025	0.64	0.045	1.14	0.464	11.79	154	229
14	9	solid	0.025	0.64	0.045	1.14	0.511	12.98	186	277
14	9	7strand	0.025	0.64	0.06	1.52	0.571	14.50	212	315
14	10	solid	0.025	0.64	0.06	1.52	0.586	14.88	220	327



AWG	No. of Conductor	Solid or Stranded	Insulation Thickness		Sheath thickness		Overall Diameter		Cable Weight	
			inches	mm	inches	mm	inches	mm	Lbs./Kft	Kg/Km
14	10	7strand	0.025	0.64	0.06	1.52	0.586	14.88	227	338
14	11	7strand	0.025	0.64	0.06	1.52	0.618	15.70	250	372
14	12	solid	0.025	0.64	0.06	1.52	0.603	15.31	254	378
14	12	7strand	0.025	0.64	0.06	1.52	0.636	16.15	267	397
14	14	7strand	0.025	0.64	0.06	1.52	0.668	16.97	304	452
14	15	solid	0.025	0.64	0.06	1.52	0.667	16.94	311	463
14	15	7strand	0.025	0.64	0.06	1.52	0.704	17.88	328	488
14	16	solid	0.025	0.64	0.06	1.52	0.667	16.94	325	484
14	16	7strand	0.025	0.64	0.06	1.52	0.704	17.88	341	507
14	19	solid	0.025	0.64	0.06	1.52	0.701	17.81	375	558
14	19	7strand	0.025	0.64	0.06	1.52	0.741	18.82	393	585
14	20	solid	0.025	0.64	0.06	1.52	0.737	18.72	395	588
14	20	7strand	0.025	0.64	0.06	1.52	0.779	19.79	415	617
14	21	7strand	0.025	0.64	0.06	1.52	0.779	19.79	432	643
14	25	solid	0.025	0.64	0.06	1.52	0.796	20.22	478	711
14	25	7strand	0.025	0.64	0.08	1.52	0.918	23.32	544	809
12	2	solid	0.03	0.76	0.045	1.14	0.382	9.70	58	86
12	2	7strand	0.03	0.76	0.045	1.14	0.397	10.08	87	129
12	3	solid	0.03	0.76	0.045	1.14	0.398	10.11	108	161
12	3	7strand	0.03	0.76	0.045	1.14	0.42	10.67	113	168
12	4	solid	0.03	0.76	0.045	1.14	0.439	11.15	135	201
12	4	7strand	0.03	0.76	0.045	1.14	0.459	11.66	141	210
12	5	solid	0.03	0.76	0.045	1.14	0.48	12.19	163	243
12	5	7strand	0.03	0.76	0.045	1.14	0.503	12.78	172	256
12	7	solid	0.03	0.76	0.06	1.52	0.555	14.10	237	353
12	7	7strand	0.03	0.76	0.06	1.52	0.579	14.71	244	363
12	9	solid	0.03	0.76	0.06	1.52	0.64	16.26	281	418
12	9	7strand	0.03	0.76	0.06	1.52	0.673	17.09	310	461
12	10	7strand	0.03	0.76	0.06	1.52	0.726	18.44	338	503





# Highway Cables

IMSA series



AWG	No. of Conductor	Solid or Stranded	Insulation Thickness		Sheath thickness		Overall Diameter		Cable Weight	
			inches	mm	inches	mm	inches	mm	Lbs./Kft	Kg/Km
12	12	solid	0.03	0.76	0.06	1.52	0.711	18.06	372	553
12	12	7strand	0.03	0.76	0.06	1.52	0.753	19.13	393	585
12	16	solid	0.03	0.76	0.06	1.52	0.793	20.14	449	668
12	19	7strand	0.03	0.76	0.08	2.03	0.918	23.32	625	930
12	20	solid	0.03	0.76	0.08	2.03	0.922	23.42	631	939
10	2	solid	0.031	0.79	0.045	1.14	0.421	10.70	110	164
10	2	7strand	0.031	0.79	0.045	1.14	0.443	11.25	118	176
10	3	solid	0.031	0.79	0.045	1.14	0.445	11.30	150	223
10	3	7strand	0.031	0.79	0.045	1.14	0.469	11.91	155	231
10	4	7strand	0.031	0.79	0.06	1.52	0.542	13.77	216	321
10	5	7strand	0.031	0.79	0.06	1.52	0.596	15.14	263	391