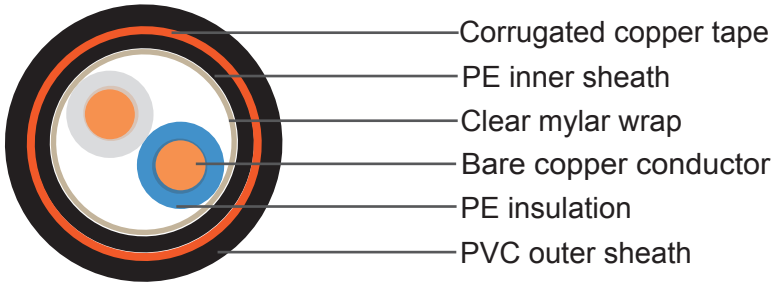
IMSA 19-6/20-6
(Signal & Communications Cable)

Application

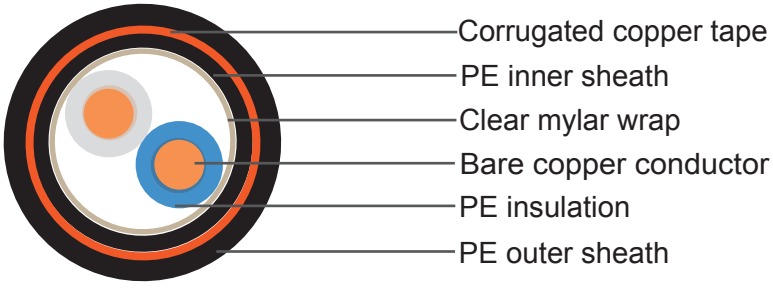
These cables are designed for use in underground conduit or as aerial cable supported by a messenger, or for direct earth burial either as fire protective signaling cable or as traffic signal cable.

Cable Construction



IMSA 19-6

- **Conductor:** Solid bare copper per ASTM B-3(stranded copper is optional)
- **Insulation:** Polyethylene(PE)
- **Pairing:** Two insulated conductors twisted together
- **Binder tape:** Clear mylar wrap – 100% coverage
- **Inner sheath:** Polyethylene(PE)
- **Shield:** Corrugated copper tape- 15% minimum overlap
- **Outer sheath:** IMSA 19-2-Black Polyvinyl chloride (PVC)/
  IMSA 20-2-Black Polyethylene(PE)



IMSA 20-6

Color Code

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

Binding Tape Color Code: cables containing more than 25 pairs are assembled insub-sectors/ groups. These are identified by spirally applied color-coded nonhygroscopicbinding tapes. The binding tapes use the same 25 pair color code.

Temperature Rating

75°C

Voltage Rating

600 V

Cable Parameter

AWG	No. of Pairs	Solid or Stranded	Insulation Thickness		Inner Sheath thickness		Outer Sheath thickness		Overall Diameter		Cable Weight	
			inches	mm	inches	mm	inches	mm	inches	mm	Lbs./ Kft	Kg/Km
14	2	Solid	0.025	0.64	0.045	1.14	0.06	1.52	0.685	17.40	196	292
14	4	Solid	0.025	0.64	0.045	1.14	0.06	1.52	0.77	19.56	254	378
14	6	Solid	0.025	0.64	0.045	1.14	0.08	2.03	0.96	24.38	367	546
14	8	Solid	0.025	0.64	0.045	1.14	0.08	2.03	1.015	25.78	440	655
16	3	Solid	0.025	0.64	0.045	1.14	0.06	1.52	0.66	16.76	166	247
16	6	Solid	0.025	0.64	0.045	1.14	0.06	1.52	0.83	21.08	261	388
16	12	Solid	0.025	0.64	0.045	1.14	0.06	1.52	1.09	27.69	459	683
16	18	Solid	0.025	0.64	0.06	1.52	0.08	2.03	1.25	31.75	646	961
16	25	Solid	0.025	0.64	0.06	1.52	0.08	2.03	1.41	35.81	836	1244
16	50	Solid	0.025	0.64	0.075	1.91	0.11	2.79	2.015	51.18	1618	2408