

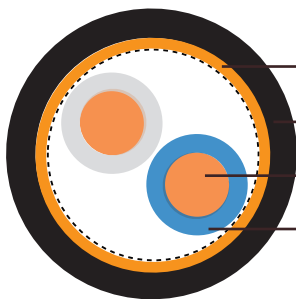


## IMSA 19-2/20-2 (Signal & Communications Cable)

### Application

These cables are designed for use in underground conduit or as aerial cable supported by a messenger or for installation in raceway in building, not including trays, or used in traffic signal, traffic control systems, fire alarm systems.

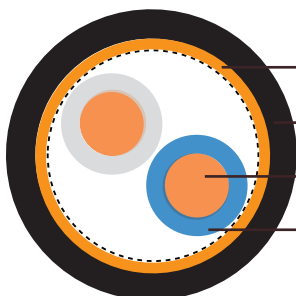
### Cable Construction



- Corrugated copper tape
- PVC sheath
- Bare copper conductor
- PE insulation

IMSA 19-2

- **Conductor:** Solid bare copper per ASTM B-3
- **Insulation:** Polyethylene(PE)
- **Pairing:** Two insulated conductors twisted together
- **Shield:** Corrugated copper tape- 15% minimum overlap
- **Sheath:** IMSA 19-2- Black Polyvinyl chloride (PVC)/  
IMSA 20-2- Black Polyethylene(PE)



- Corrugated copper tape
- PE sheath
- Bare copper conductor
- PE insulation

IMSA 20-2



### 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 in sub-sectors/ groups. These are identified by spirally applied color-coded nonhygroscopic binding 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		Sheath thickness		Overall Diameter		Cable Weight	
			inches	mm	inches	mm	inches	mm	Lbs./Kft	Kg/Km
14	1	Solid	0.025	0.64	0.045	1.14	0.41	10.41	87	129
14	2	Solid	0.025	0.64	0.06	1.52	0.63	16.00	141	210
14	4	Solid	0.025	0.64	0.06	1.52	0.69	17.53	214	318
14	6	Solid	0.025	0.64	0.08	2.03	0.87	22.10	320	476
14	8	Solid	0.025	0.64	0.08	2.03	0.92	23.37	398	592
16	3	Solid	0.025	0.64	0.08	2.03	0.58	14.73	135	201
16	6	Solid	0.025	0.64	0.08	2.03	0.76	19.30	343	510
16	12	Solid	0.025	0.64	0.08	2.03	0.97	24.64	406	604
16	18	Solid	0.025	0.64	0.08	2.03	1.15	29.21	560	833
16	25	Solid	0.025	0.64	0.08	2.03	1.31	33.27	740	1101
16	50	Solid	0.025	0.64	0.11	2.79	1.83	46.48	1526	2271