

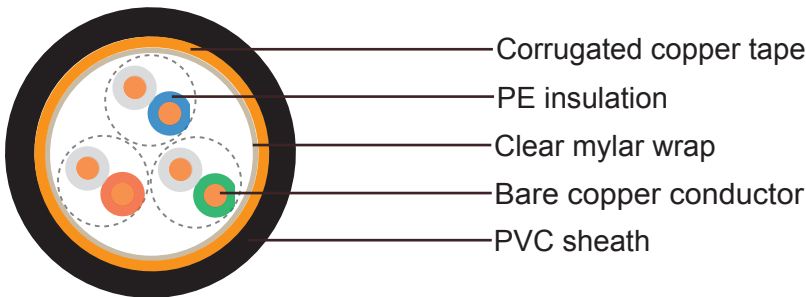


IMSA 39-2/40-2(Communication Cable)

Application

These cables are designed for use in underground conduit or as aerial cable supported by a messenger or for installation in raceway in buildings, not including trays either as fire protective signaling cable or traffic communications and data acquisition cable suitable for power limited use.

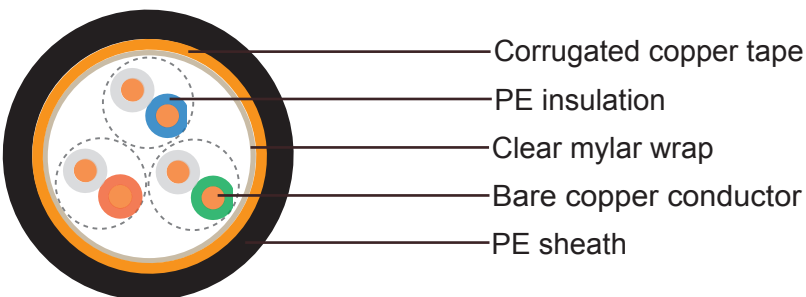
Cable Construction



IMSA 39-2

- **Conductor:** Solid bare copper per ASTM B-3
- **Insulation:** Polyethylene(PE)
- **Pairing:** Two insulated conductors twisted together
- **Binder tape:** Clear mylar wrap – 100% coverage
- **Shield:** Corrugated copper tape- 15% minimum overlap
- **Sheath:** IMSA 39-2-Black Polyvinyl chloride (PVC)/

IMSA 40-2-Black Polyethylene(PE)



IMSA 40-2



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 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

300 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
19	3	Solid	0.015	0.38	0.045	1.14	0.424	10.77	77	115
19	6	Solid	0.015	0.38	0.06	1.52	0.565	14.35	132	196
19	12	Solid	0.015	0.38	0.06	1.52	0.666	16.92	205	305
19	18	Solid	0.015	0.38	0.06	1.52	0.77	19.56	283	421
19	25	Solid	0.015	0.38	0.08	2.03	0.82	20.83	369	549
19	50	Solid	0.015	0.38	0.08	2.03	1.27	32.26	703	1046
16	3	Solid	0.02	0.51	0.06	1.52	0.57	14.48	130	193
16	6	Solid	0.02	0.51	0.06	1.52	0.67	17.02	203	302
16	12	Solid	0.02	0.51	0.08	2.03	0.89	22.61	415	618
16	18	Solid	0.02	0.51	0.08	2.03	1.09	27.69	528	786
16	25	Solid	0.02	0.51	0.08	2.03	1.14	28.96	744	1107
16	50	Solid	0.02	0.51	0.08	2.03	1.59	40.39	1267	1885