

250V MPY, MPYC, MPYCY | Normal Type**250V FA-MPY, FA-MPYC, FA-MPYCY | Flame Retardant Type****Construction Details**

- ① Conductor (Tinned annealed copper wire, standard)
- ② EPR insulation (identified)
- ③ Cabling (with filler)
- ④ Tape
- ⑤ PVC sheath : End of "-Y" type
- ⑥ Metal wire braid armour (GSW)
- ⑦ Paint : End of "-YC" type
- ⑧ PVC outer sheath : End of "-YCY" type

Standard Applied

- Design guideline : JIS C 3410 (2010)
- Material properties : JIS C 3410 Insulation, EPR
JIS C 3410 Sheath, PVC
- Flame retardant(FA- type only) : IEC 60332-3, Cat.'A'

Identification of color

- Identification of insulated cores
- 2 core and above : Numbering on white insulated core

No. of Cores	Conductor			Thickness of insulation	[FA]-MPY		[FA]-MPYC		[FA]-MPYCY		Cable weight (approx.)		
					Unarmor		Armor		Armor with protective sheath				
	Nominal Sectional Area	No.& dia of Wire	Dia.		Thickness of sheath	Nominal dia. over sheath	Dia.of metal wire for braid	Nominal dia. over braid	Thickness of outer sheath	Nominal overall dia.	Unarmor	Armor	Armor with sheath
EA	mm ²	EA/mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	kg/km
2	1.0	7/0.43	1.29	0.6	1.1	8.7±0.4	0.3	10.0±0.4	0.9	12.0±0.5	85	155	205
3	1.0	7/0.43	1.29	0.6	1.1	9.1±0.4	0.3	10.5±0.4	0.9	12.5±0.5	100	185	230
4	1.0	7/0.43	1.29	0.6	1.1	9.9±0.4	0.3	11.2±0.4	0.9	13.2±0.5	125	205	260
5	1.0	7/0.43	1.29	0.6	1.1	10.7±0.4	0.3	12.1±0.5	0.9	14.1±0.6	155	280	300
7	1.0	7/0.43	1.29	0.6	1.2	11.9±0.4	0.3	13.2±0.5	0.9	15.2±0.6	190	290	350
9	1.0	7/0.43	1.29	0.6	1.2	13.7±0.5	0.3	15.1±0.6	1.0	17.3±0.7	240	410	430
12	1.0	7/0.43	1.29	0.6	1.3	15.5±0.7	0.3	16.8±0.7	1.0	19.0±0.8	315	440	525
16	1.0	7/0.43	1.29	0.6	1.4	17.3±0.7	0.3	18.7±0.7	1.1	21.1±0.8	410	640	645
19	1.0	7/0.43	1.29	0.6	1.4	18.3±0.8	0.3	19.6±0.8	1.1	22.0±0.9	465	615	720
23	1.0	7/0.43	1.29	0.6	1.5	20.5±0.8	0.3	21.9±0.9	1.1	24.3±1.0	585	865	865
27	1.0	7/0.43	1.29	0.6	1.6	22.1±0.9	0.3	23.4±0.9	1.2	26.0±1.0	665	840	980
33	1.0	7/0.43	1.29	0.6	1.6	23.8±1.0	0.3	25.2±1.0	1.2	27.8±1.1	790	1130	1115
37	1.0	7/0.43	1.29	0.6	1.7	24.8±1.0	0.3	26.1±1.0	1.3	28.9±1.2	870	1070	1240
44	1.0	7/0.43	1.29	0.6	1.8	28.0±1.2	0.3	29.3±1.2	1.3	32.1±1.3	1060	1290	1470
77	1.0	7/0.43	1.29	0.6	2.1	35.9±1.5	0.4	37.7±1.5	1.5	41.1±1.6	1790	2190	2480

250V TTY, TTYC, TTYCY | Normal Type**250V FA-TTY, FA-TTYC, FA-TTYCY | Flame Retardant Type****Construction Details**

- ① Conductor (Annealed copper wire, standard)
- ② PVC insulation (identified)
- ③ Twist (Pair, Triad, Quad)
- ④ Cabling (with filler)
- ⑤ Tape
- ⑥ PVC sheath : End of "-Y" type
- ⑦ Metal wire braid armour (GSW)
- ⑧ Paint : End of "-YC" type
- ⑨ PVC outer sheath : End of "-YCY" type

Standard Applied

- Design guideline : JIS C 3410 (2010)
- Material properties : JIS C 3410 Insulation, EPR
JIS C 3410 Sheath, PVC
- Flame retardant(FA- type only) : IEC 60332-3, Cat.'A'

Identification of color

- Identification of insulated cores
 - A Core : Black Numbering(1A, 2A,...) B Core : Red Numbering(1B,2B,...)
 - C Core : Black Numbering(1C) D Core : Black Numbering(1D)

No. of Cores	Conductor			Thickness of insulation	[FA]-TTY		[FA]-TTYC		[FA]-TTYCY		Cable weight (approx.)		
					Unarmor		Armor		Armor with protective sheath				
	Nominal Sectional Area	No.& dia of Wire	Dia.		Thickness of sheath	Nominal dia. over sheath	Dia.of metal wire for braid	Nominal dia. over braid	Thickness of outer sheath	Nominal overall dia.	Unarmor	Armor	Armor with sheath
Pr	mm²	EA/mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	kg/km
1	0.75	7/0.37	1.11	0.6	1.0	7.9±0.4	0.3	9.2±0.4	0.8	11.0±0.4	65	130	170
1Tr	0.75	7/0.37	1.11	0.6	1.1	8.6±0.4	0.3	9.9±0.4	0.9	11.7±0.5	85	160	200
1Qd	0.75	7/0.37	1.11	0.6	1.1	9.3±0.4	0.3	10.6±0.4	0.9	12.6±0.5	105	180	230
2	0.75	7/0.37	1.11	0.6	1.2	12.1±0.5	0.3	13.5±0.5	0.9	15.5±0.6	145	235	295
3	0.75	7/0.37	1.11	0.6	1.2	12.8±0.5	0.3	14.2±0.6	1.0	16.4±0.7	180	270	345
4	0.75	7/0.37	1.11	0.6	1.3	14.2±0.6	0.3	15.5±0.6	1.0	17.7±0.7	205	320	400
7	0.75	7/0.37	1.11	0.6	1.4	16.9±0.7	0.3	18.2±0.7	1.1	20.6±0.8	310	445	545
10	0.75	7/0.37	1.11	0.6	1.5	21.7±0.9	0.3	23.0±0.9	1.2	25.6±1.0	465	640	775
14	0.75	7/0.37	1.11	0.6	1.6	23.5±1.0	0.3	24.8±1.0	1.2	27.4±1.1	585	775	920
15	0.75	7/0.37	1.11	0.6	1.6	24.1±1.0	0.3	25.5±1.0	1.2	28.1±1.1	670	840	1000
19	0.75	7/0.37	1.11	0.6	1.7	26.4±1.1	0.3	27.7±1.1	1.3	30.5±1.2	755	965	1140
24	0.75	7/0.37	1.11	0.6	1.9	31.9±1.3	0.4	33.7±1.3	1.4	36.7±1.5	1030	1380	1610
30	0.75	7/0.37	1.11	0.6	2.0	34.0±1.4	0.4	35.8±1.4	1.5	39.2±1.6	1220	1590	1870
37	0.75	7/0.37	1.11	0.6	2.1	36.9±1.5	0.4	38.7±1.5	1.6	42.3±1.6	1450	1860	2180
48	0.75	7/0.37	1.11	0.6	2.3	42.8±1.7	0.4	44.6±1.7	1.7	48.4±1.8	1910	2380	2760