

0.6/1kV SPYS, SPYCS, SPYCYS, SPYCBS, SPYCBYS | Normal Type**0.6/1kV FA-SPYS, FA-SPYCS, FA-SPYCYS, FA-SPYCBS, FA-SPYCBYS | Flame Retardant Type****Construction Details**

- ① Conductor (Tinned annealed copper wire, standard)
- ② EPR insulation (identified)
- ③ Common shield braid (copper wire)
- ④ Tape
- ⑤ PVC sheath
- ⑥ Metal wire braid armour : End of "-CBS"① or "-CS"② type
- ⑦ Paint : * End of "-YC" type
- ⑧ PVC outer sheath : -CBYS"① or "-CYS"② type

Note | ① For single core cable, the armour should be used of copper-alloy wire as non-magnetic material in order to avoid current loops according to clause 3.26 of IEC Pub.60092-352
 ② Single core cable "-CS" & "-CYS" is used in below case.
 - When do not exceed 20 amps
 - D.C wiring
 - Not necessary for the cable having the length less than 30 meter

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
- 1 core : Black

No. of Cores	Conductor			Thickness of insulation	(FA)-SPYS		(FA)-SPYCS		(FA)-SPYCYS		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	mm²	EA/mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	kg/km
1	1.5	7/0.52	1.56	1.0	1.0	6.5±0.3	0.3	7.9±0.3	0.8	9.7±0.4	80	145	180
	2.5	7/0.67	2.01	1.0	1.0	6.9±0.3	0.3	8.3±0.3	0.8	10.1±0.4	95	160	200
	4	7/0.85	2.55	1.0	1.0	7.5±0.3	0.3	8.9±0.4	0.8	10.7±0.4	120	190	230
	6	7/1.04	3.12	1.0	1.0	8.1±0.3	0.3	9.5±0.4	0.8	11.3±0.5	150	225	270
	10	7/1.35	4.05	1.0	1.1	9.3±0.4	0.3	10.7±0.4	0.9	12.7±0.5	205	295	350
	16	7/1.70	5.10	1.0	1.1	10.3±0.4	0.3	11.7±0.5	0.9	13.7±0.5	275	375	435
	25	7/2.14	6.42	1.2	1.2	12.3±0.5	0.3	13.7±0.5	0.9	15.7±0.6	410	520	590
	35	7/2.52	7.56	1.2	1.2	13.6±0.5	0.3	15.0±0.6	1.0	17.2±0.7	530	655	735
	50	19/1.78	8.90	1.4	1.3	15.5±0.6	0.3	16.9±0.7	1.0	19.1±0.8	685	825	925
	70	19/2.14	10.7	1.6	1.4	17.6±0.7	0.3	19.0±0.8	1.1	21.4±0.9	925	1085	1195
	95	19/2.52	12.6	1.6	1.5	20.1±0.8	0.3	21.5±0.9	1.1	23.9±1.0	1230	1410	1540
	120	37/2.03	14.2	1.6	1.5	21.8±0.9	0.3	23.2±0.9	1.2	25.8±1.0	1505	1700	1850
	150	37/2.25	15.8	1.8	1.6	24.0±1.0	0.3	25.4±1.0	1.2	28.0±1.1	1825	2040	2200
	185	37/2.52	17.6	2.0	1.7	26.4±1.1	0.3	27.8±1.1	1.3	30.6±1.2	2240	2475	2670
	240	61/2.25	20.3	2.2	1.8	29.8±1.2	0.3	31.2±1.2	1.4	34.2±1.4	2900	3165	3395
300	61/2.52	22.7	2.4	2.0	33.0±1.3	0.4	34.8±1.4	1.5	38.0±1.5	3585	3965	4235	