

250V FR-MPYCSLA, FR-MPYCYSLA | Normal Type**250V FR-FA-MPYCSLA, FR-FA-MPYCYSLA | Flame Retardant Type****Flame retardant, Fire resistance****Construction Details**

- ① Conductor (Tinned annealed copper wire, stranded)
- ② MGT/EPR insulation (identified)
- ③ Cabling (with filler)
- ④ Aluminum mylar common shield with drain wire (at least 0.5mm²)
- ⑤ Tape
- ⑥ PVC sheath
- ⑦ Metal wire braid armour (GSW)
- ⑧ Paint : End of "-YCS" type
- ⑨ PVC outer sheath : End of "-YCYS" 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'
- Fire resistant : IEC 60331-1, 2

Identification of color

- Insulation color : White
- 2 Core and above : Numbering on white insulated core

No. of Cores	Conductor			Thickness of insulation	Thickness of sheath	Nominal dia. over sheath	[FR]-(FA)-MPYCSLA		[FR]-(FA)-MPYCYSLA		Cable weight (approx.)	
							Armor		Armor with protective sheath			
	Nominal Sectional Area	No.& dia of Wire	Dia.				Dia.of metal wire for braid	Nominal dia. over braid	Thickness of outer sheath	Nominal overall dia.	Armor	Armor with sheath
EA	mm ²	EA/mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
2	1.0	7/0.43	1.29	0.6	1.1	10.9	0.3	12.3±0.5	0.9	14.3±0.6	240	295
4	1.0	7/0.43	1.29	0.6	1.2	12.8	0.3	14.2±0.6	1.0	16.4±0.7	330	405
5	1.0	7/0.43	1.29	0.6	1.3	14.2	0.3	15.6±0.6	1.0	17.8±0.7	390	470
7	1.0	7/0.43	1.29	0.6	1.3	15.4	0.3	16.8±0.7	1.0	19.0±0.8	460	545
9	1.0	7/0.43	1.29	0.6	1.4	18.1	0.3	19.5±0.8	1.1	21.9±0.9	580	690
12	1.0	7/0.43	1.29	0.6	1.5	20.5	0.3	21.9±0.9	1.1	24.3±1.0	695	815
16	1.0	7/0.43	1.29	0.6	1.6	23.0	0.3	24.4±1.0	1.2	27.0±1.1	865	1015
19	1.0	7/0.43	1.29	0.6	1.6	24.2	0.3	25.6±1.0	1.2	28.2±1.1	955	1110
27	1.0	7/0.43	1.29	0.6	1.8	29.3	0.3	30.7±1.2	1.4	33.7±1.3	1305	1520
33	1.0	7/0.43	1.29	0.6	1.9	31.8	0.4	33.6±1.3	1.4	36.6±1.5	1610	1845
37	1.0	7/0.43	1.29	0.6	2.0	33.2	0.4	35.0±1.4	1.5	38.3±1.5	1750	2010
44	1.0	7/0.43	1.29	0.6	2.1	37.5	0.4	39.3±1.6	1.6	42.8±1.7	2070	2380

250V FR-TTPYCS, FR-TTPYCYS | Normal Type**250V FR-FA-TTPYCS, FR-FA-TTPYCYS | Flame Retardant Type****Flame retardant, Fire resistance****Construction Details**

- ① Conductor (Tinned annealed copper wire, standard)
- ② MGT/EPR insulation (identified)
- ③ Twist (Pair, Triad, Quad)
- ④ Cabling (with filler)
- ⑤ Common shield braid (Copper wire)
- ⑥ Tape
- ⑦ PVC sheath
- ⑧ Metal wire braid armour (GSW)
- ⑨ Paint : End of "-YCS" type
- ⑩ PVC outer sheath : End of "-YCYS" 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

- Insulation color : White
- 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	Dia.of copper wire for shield braid	Thickness of sheath	Nominal dia. over sheath	[FR]-[FA]-TTPYCS		[FR]-[FA]-TTPYCYS		Cable weight (approx.)	
								Armor		Armor with protective sheath			
	Nominal Sectional Area	No.& dia of Wire	Dia.					Dia.of metal wire for braid	Nominal dia. over braid	Thickness of outer sheath	Nominal overall dia.	Armor	Armor with sheath
Pr	mm ²	EA/mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1	0.75	7/0.37	1.11	0.6	0.14	1.1	9.4	0.3	11.0±0.4	0.8	12.8±0.5	185	235
1Tr	0.75	7/0.37	1.11	0.6	0.14	1.1	9.9	0.3	11.5±0.5	0.8	13.3±0.5	205	520
1Qd	0.75	7/0.37	1.11	0.6	0.14	1.1	10.6	0.3	12.2±0.5	0.9	14.2±0.6	235	295
2	0.75	7/0.37	1.11	0.6	0.16	1.3	14.1	0.3	15.7±0.6	0.9	17.7±0.7	310	390
4	0.75	7/0.37	1.11	0.6	0.16	1.3	16.2	0.3	17.8±0.7	1.0	20.0±0.8	425	525
7	0.75	7/0.37	1.11	0.6	0.16	1.5	19.6	0.3	21.2±0.8	1.1	23.6±0.9	590	715
10	0.75	7/0.37	1.11	0.6	0.18	1.6	23.8	0.3	25.4±1.0	1.2	28.0±1.1	810	975
14	0.75	7/0.37	1.11	0.6	0.18	1.7	26.7	0.3	28.3±1.1	1.3	31.1±1.2	985	1185
19	0.75	7/0.37	1.11	0.6	0.20	1.9	30.8	0.4	32.8±1.3	1.4	35.8±1.4	1350	1595
24	0.75	7/0.37	1.11	0.6	0.20	2.0	34.2	0.4	36.2±1.4	1.5	39.4±1.6	1615	1900
30	0.75	7/0.37	1.11	0.6	0.26	2.1	38.0	0.4	40.0±1.6	1.6	43.4±1.7	1985	2315
37	0.75	7/0.37	1.11	0.6	0.26	2.3	42.0	0.4	44.0±1.8	1.7	47.6±1.9	2355	2745
48	0.75	7/0.37	1.11	0.6	0.26	2.5	47.3	0.4	49.3±2.0	1.8	53.1±2.1	2910	3370

250V FR-TTPYSLA, FR-TTPYCSLA, FR-TTPYCYSLA | Normal Type**250V FR-FA-TTPYSLA, FR-FA-TTPYCSLA, FR-FA-TTPYCYSLA | Flame Retardant Type****Flame retardant, Fire resistance****Construction Details**

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- ④ Cabling (with filler)
- ⑤ Aluminum mylar common shield with drain wire
- ⑥ Tape
- ⑦ PVC sheath : End of "-YSLA" type
- ⑧ Metal wire braid armour (GSW)
- ⑨ Paint : End of "-YCSLA" type
- ⑩ PVC outer sheath : End of "-YCYSLA" 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'
- Fire resistant : IEC 60331-1,2

Identification of color

- Insulation color : White
- 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	(FR)-(FA)-TTPYSLA		(FR)-(FA)-TTPYCSLA		(FR)-(FA)-TTPYCYSLA		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	mm ²	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	1.1	8.9±0.4	0.3	10.5±0.4	0.9	12.3±0.5	100	165	210
1Tr	0.75	7/0.37	1.11	0.6	1.1	9.4±0.4	0.3	11.0±0.4	0.9	12.8±0.5	120	190	235
1Qd	0.75	7/0.37	1.11	0.6	1.1	10.2±0.4	0.3	11.8±0.5	0.9	13.6±0.5	145	220	270
2	0.75	7/0.37	1.11	0.6	1.3	13.4±0.5	0.3	15.0±0.6	1.0	17.0±0.7	185	285	355
4	0.75	7/0.37	1.11	0.6	1.3	15.8±0.6	0.3	17.4±0.7	1.0	19.4±0.8	285	400	480
7	0.75	7/0.37	1.11	0.6	1.4	19.1±0.8	0.3	20.7±0.8	1.1	22.9±0.9	435	570	675
10	0.75	7/0.37	1.11	0.6	1.6	23.5±0.9	0.3	25.1±1.0	1.2	27.5±1.1	625	790	930
14	0.75	7/0.37	1.11	0.6	1.7	26.5±1.1	0.3	28.1±1.1	1.3	30.7±1.2	820	1010	1180
19	0.75	7/0.37	1.11	0.6	1.9	30.7±1.2	0.4	32.7±1.3	1.4	35.5±1.4	1095	1380	1595
24	0.75	7/0.37	1.11	0.6	2.0	34.1±1.4	0.4	36.1±1.4	1.5	39.1±1.6	1350	1670	1920
30	0.75	7/0.37	1.11	0.6	2.1	37.8±1.5	0.4	39.8±1.6	1.6	43.0±1.7	1655	2010	2305
37	0.75	7/0.37	1.11	0.6	2.3	41.9±1.7	0.4	43.9±1.8	1.7	47.3±1.9	2030	2420	2770
48	0.75	7/0.37	1.11	0.6	2.5	47.4±1.9	0.4	49.4±2.0	1.8	53.0±2.1	2600	3040	3455