

250V FR-MPYC-S, FR-MPYCY-S | Normal Type**250V FR-FA-MPYC-S, FR-FA-MPYCY-S | Flame Retardant Type****Flame retardant, Fire resistance****Construction Details**

- ① Conductor (Tinned annealed copper wire, stranded)
- ② MGT/EPR insulation (identified)
- ③ Individual shield braid (Copper wire)
- ④ Cabling (with filler)
- ⑤ Tape
- ⑥ PVC sheath
- ⑦ Metal wire braid armour (GSW)
- ⑧ Paint : End of "-YC-S" type
- ⑨ PVC outer sheath : End of "-YCY-S" 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	Dia.of copper wire for shield braid	Thickness of sheath	Nominal dia. over sheath	(FR)-(FA)-MPYC-S		(FR)-(FA)-MPYCY-S		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	mm	kg/km	kg/km
2	1.0	7/0.43	1.29	0.6	0.12	1.2	12.2	0.3	13.6±0.5	0.9	15.6±0.6	285	355
4	1.0	7/0.43	1.29	0.6	0.12	1.3	14.4	0.3	15.8±0.6	1.0	18.0±0.7	425	505
5	1.0	7/0.43	1.29	0.6	0.12	1.3	15.7	0.3	17.1±0.7	1.0	19.3±0.8	500	585
7	1.0	7/0.43	1.29	0.6	0.12	1.4	17.3	0.3	18.7±0.7	1.1	21.1±0.8	630	735
9	1.0	7/0.43	1.29	0.6	0.12	1.5	20.4	0.3	21.8±0.9	1.1	24.2±1.0	820	950
12	1.0	7/0.43	1.29	0.6	0.12	1.6	23.1	0.3	24.5±1.0	1.2	27.1±1.1	1035	1185
16	1.0	7/0.43	1.29	0.6	0.12	1.7	25.9	0.3	27.3±1.1	1.3	30.1±1.2	1370	1545
19	1.0	7/0.43	1.29	0.6	0.12	1.7	27.3	0.3	28.7±1.1	1.3	31.5±1.3	1585	1775
27	1.0	7/0.43	1.29	0.6	0.12	2.0	33.3	0.4	35.1±1.4	1.5	38.3±1.5	2485	2745
33	1.0	7/0.43	1.29	0.6	0.12	2.1	36.1	0.4	37.9±1.5	1.5	41.1±1.6	3135	3420
37	1.0	7/0.43	1.29	0.6	0.12	2.1	37.5	0.4	39.3±1.6	1.6	42.7±1.7	3555	3865
44	1.0	7/0.43	1.29	0.6	0.12	2.3	42.6	0.4	44.4±1.8	1.7	48.0±1.9	4510	4880

250V FR-TTPY-SLA, FR-TTPYC-SLA, FR-TTPYCY-SLA, 250V FR-TTPY-SSLA, FR-TTPYC-SSLA, FR-TTPYCY-SSLA | Normal Type
250V FR-FA-TTPY-SLA, FR-FA-TTPYC-SLA, FR-FA-TTPYCY-SLA, 250V FR-FA-TTPY-SSLA, FR-FA-TTPYC-SSLA,
FR-FA-TTPYCY-SSLA | 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 Aluminum mylar individual shield with drain wire (at least 0.5mm²)
- ⑤ Cabling (with filler)
- ⑥ (option for "-SSLA") Aluminum mylar common shield with drain wire (at least 0.5mm²)
- ⑦ Tape
- ⑧ PVC sheath : End of "-Y" type
- ⑨ Metal wire braid armour (GSW)
- ⑩ Paint : End of "-YC" type
- ⑪ 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'
- 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)-TTPY-SLA		(FR)-(FA)-TTPYC-SLA		(FR)-(FA)-TTPYCY-SLA		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
2	0.75	7/0.37	1.11	0.6	1.3	14.2±0.6	0.3	15.8±0.6	1.0	17.8±0.7	225	325	400
4	0.75	7/0.37	1.11	0.6	1.4	16.6±0.7	0.3	18.2±0.7	1.1	20.4±0.8	350	465	560
7	0.75	7/0.37	1.11	0.6	1.5	20.1±0.8	0.3	21.7±0.9	1.1	23.9±1.0	540	680	790
10	0.75	7/0.37	1.11	0.6	1.7	24.7±1.0	0.3	26.3±1.1	1.3	28.9±1.2	770	945	1105
14	0.75	7/0.37	1.11	0.6	1.8	27.8±1.1	0.3	29.4±1.2	1.3	32.0±1.3	1015	1210	1390
19	0.75	7/0.37	1.11	0.6	1.9	31.9±1.3	0.4	33.9±1.4	1.4	36.7±1.5	1335	1635	1855
24	0.75	7/0.37	1.11	0.6	2.1	35.7±1.4	0.4	37.7±1.5	1.5	40.7±1.6	1675	2005	2270
30	0.75	7/0.37	1.11	0.6	2.2	39.6±1.6	0.4	41.6±1.7	1.6	44.8±1.8	2060	2425	2740
37	0.75	7/0.37	1.11	0.6	2.4	43.8±1.8	0.4	45.8±1.8	1.7	49.2±2.0	2520	2930	3290
48	0.75	7/0.37	1.11	0.6	2.6	49.6±2.0	0.4	51.6±2.1	1.9	55.4±2.2	3230	3690	4150