

PRYSMIAN Fire Resistance Cable, Double Sheath, Multicore ; FireSafe 20
 Low Smoke Zero Halogen, Flame Retardant, Non-Corrosive Cable
 0.6/1kV, IEC 60502



- 1 Copper
- 2 MGT
- 3 XLPE
- 4 LSHF

Construction

- 1. Conductor : Plain or Tinned annealed stranded circular conductor - Class 2
- 2. Fire Proof Layer : Mica backed glass fiber tape
- 3. Insulation : Cross-linked polyethylene compound
- 4. Sheath : Low smoke zero halogen based compound

Applications

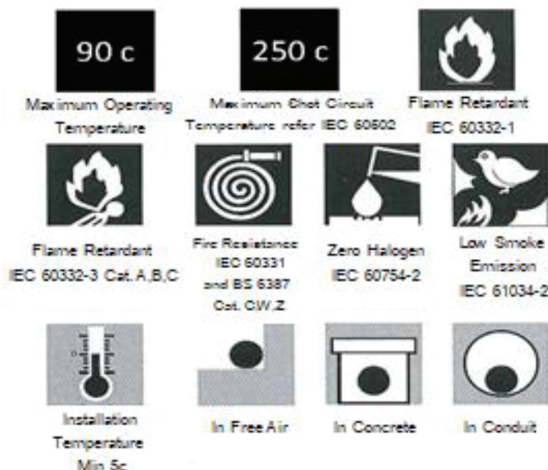
These cables are used in internal and external place in where safty regulations must be taken against fire such as school, hospital, meeting room and shopping centers.

Electrical Characteristics

- Rate Voltage : 600/1000V
- Maximum operating temperature : 90 C
- Final short circuit temperature : 250 C
- Test Voltage : 3.5kVac for 5 minutes

Standards Applied

- Conductor : IEC 60228 / BS 6360
- Fire Resistance Test : BS 6387 Cat.C,W,Z / IEC 60331
- Flame Retardant Test : IEC 60332-3 Cat.A,B,C
- Halogen Free Test : IEC 60754-2
- Low Smoke Test : IEC 61034-2



No. of core and nominal cross section	Conductor construction	Nominal insulation thickness	Nominal insulation diameter	Nominal sheath thickness	Approx. outer diameter	Approx. weight	Sheath colour	Maximum conductor resistance @20c		Minimum insulation resistance @20c	Minimum bending radius
								Cu (Ω/km)	TinCu (Ω/km)		
(n x sq.mm)	_/_ mm	(mm)	(mm)	(mm)	(mm ±10%)	kg/km			(MΩ.km)	(mm)	
2 x 1.5	7 / 0.53	0.7	3.8	1.8	11.4	180	Orange	12.10	12.20	2000	91 (8D)
2 x 2.5	7 / 0.67	0.7	4.2	1.8	12.2	217	Orange	7.41	7.56	2000	98 (8D)
2 x 4	7 / 0.85	0.7	4.8	1.8	13.3	271	Orange	4.61	4.70	2000	106 (8D)
2 x 6	7 / 1.04	0.7	5.3	1.8	14.4	339	Orange	3.08	3.11	2000	115 (8D)
2 x 10	7 / 1.35	0.7	6.2	1.8	16.3	367	Orange	1.83	1.84	2000	130 (8D)
2 x 16	7 / 1.70	0.7	7.3	1.8	18.4	508	Orange	1.15	1.16	2000	147 (8D)
2 x 25	7 / 2.14	0.9	9.0	1.8	22.1	740	Orange	0.727	0.734	2000	177 (8D)
2 x 35	19 / 1.53	0.9	10.3	1.8	25.1	978	Orange	0.524	0.529	2000	201 (8D)
2 x 50	19 / 1.78	1.0	11.8	1.8	28.2	1317	Orange	0.387	0.391	2000	226 (8D)
2 x 70	19 / 2.14	1.1	13.7	1.8	32.1	1744	Orange	0.268	0.270	2000	257 (8D)
2 x 95	19 / 2.52	1.1	15.7	2.0	36.6	2398	Orange	0.193	0.195	2000	293 (8D)
2 x 120	37 / 2.03	1.2	17.4	2.1	40.3	2899	Orange	0.153	0.154	2000	322 (8D)
2 x 150	37 / 2.25	1.4	19.4	2.2	44.5	3581	Orange	0.124	0.126	2000	356 (8D)
2 x 185	37 / 2.52	1.6	21.7	2.3	49.4	4441	Orange	0.0991	0.1000	2000	395 (8D)
2 x 240	61 / 2.25	1.7	24.5	2.5	55.5	5763	Orange	0.0754	0.0762	2000	444 (8D)
2 x 300	61 / 2.52	1.8	27.2	2.6	61.0	7081	Orange	0.0601	0.0607	2000	488 (8D)
2 x 400	61 / 2.85	2.0	30.4	2.9	68.2	8961	Orange	0.047	0.0475	2000	546 (8D)

No. of core and nominal cross section	Conductor construction	Nominal insulation thickness	Normal insulation diameter	Nominal sheath thickness	Approx. outer diameter	Approx. weight	Sheath colour	Maximum conductor resistance @20c		Minimum insulation resistance @20c	Minimum bending radius
(n x sq.mm)	_/_ mm	(mm)	(mm)	(mm)	(mm ±10%)	kg/km		Cu (Ω/km)	TinCu (Ω/km)	(MΩ.km)	(mm)
3 x 1.5	7 / 0.53	0.7	3.8	1.8	12.0	204	Orange	12.10	12.20	2000	96 (8D)
3 x 2.5	7 / 0.67	0.7	4.2	1.8	12.9	250	Orange	7.41	7.56	2000	103 (8D)
3 x 4	7 / 0.85	0.7	4.8	1.8	14.1	318	Orange	4.61	4.70	2000	113 (8D)
3 x 6	7 / 1.04	0.7	5.3	1.8	15.3	404	Orange	3.08	3.11	2000	122 (8D)
3 x 10	7 / 1.35	0.7	6.2	1.8	17.3	483	Orange	1.83	1.84	2000	138 (8D)
3 x 16	7 / 1.70	0.7	7.3	1.8	19.6	682	Orange	1.15	1.16	2000	157 (8D)
3 x 25	7 / 2.14	0.9	9.0	1.8	23.6	1003	Orange	0.727	0.734	2000	189 (8D)
3 x 35	19 / 1.53	0.9	10.3	1.8	26.8	1332	Orange	0.524	0.529	2000	226 (8D)
3 x 50	19 / 1.78	1.0	11.8	1.8	30.1	1744	Orange	0.387	0.391	2000	241 (8D)
3 x 70	19 / 2.14	1.1	13.7	1.9	34.7	2446	Orange	0.268	0.270	2000	278 (8D)
3 x 95	19 / 2.52	1.1	15.7	2.0	39.2	3272	Orange	0.193	0.195	2000	314 (8D)
3 x 120	37 / 2.03	1.2	17.4	2.1	43.1	4084	Orange	0.153	0.154	2000	345 (8D)
3 x 150	37 / 2.25	1.4	19.4	2.3	47.9	5014	Orange	0.124	0.126	2000	383 (8D)
3 x 185	37 / 2.52	1.6	21.7	2.4	53.1	6271	Orange	0.0991	0.1000	2000	425 (8D)
3 x 240	61 / 2.25	1.7	24.5	2.6	59.7	8041	Orange	0.0754	0.0762	2000	478 (8D)
3 x 300	61 / 2.52	1.8	27.2	2.8	65.8	10007	Orange	0.0601	0.0607	2000	526 (8D)
3 x 400	61 / 2.85	2.0	30.4	3.0	73.4	12635	Orange	0.047	0.0475	2000	587 (8D)
4 x 1.5	7 / 0.53	0.7	3.8	1.8	13.0	239	Orange	12.10	12.20	2000	104 (8D)
4 x 2.5	7 / 0.67	0.7	4.2	1.8	14.0	296	Orange	7.41	7.56	2000	112 (8D)
4 x 4	7 / 0.85	0.7	4.8	1.8	15.3	381	Orange	4.61	4.70	2000	122 (8D)
4 x 6	7 / 1.04	0.7	5.3	1.8	16.7	489	Orange	3.08	3.11	2000	134 (8D)
4 x 10	7 / 1.35	0.7	6.2	1.8	18.9	610	Orange	1.83	1.84	2000	151 (8D)
4 x 16	7 / 1.70	0.7	7.3	1.8	21.8	871	Orange	1.15	1.16	2000	174 (8D)
4 x 25	7 / 2.14	0.9	9.0	1.8	25.9	1301	Orange	0.727	0.734	2000	207 (8D)
4 x 35	19 / 1.53	0.9	10.3	1.8	29.5	1706	Orange	0.524	0.529	2000	236 (8D)
4 x 50	19 / 1.78	1.0	11.8	1.8	33.4	2291	Orange	0.387	0.391	2000	267 (8D)
4 x 70	19 / 2.14	1.1	13.7	2.0	38.5	3155	Orange	0.268	0.270	2000	308 (8D)
4 x 95	19 / 2.52	1.1	15.7	2.2	43.7	4335	Orange	0.193	0.195	2000	350 (8D)
4 x 120	37 / 2.03	1.2	17.4	2.3	48.1	5295	Orange	0.153	0.154	2000	385 (8D)
4 x 150	37 / 2.25	1.4	19.4	2.4	53.2	6638	Orange	0.124	0.126	2000	426 (8D)
4 x 185	37 / 2.52	1.6	21.7	2.6	59.2	8215	Orange	0.0991	0.1000	2000	474 (8D)
4 x 240	61 / 2.25	1.7	24.5	2.8	66.5	10684	Orange	0.0754	0.0762	2000	532 (8D)
4 x 300	61 / 2.52	1.8	27.2	3.0	73.3	13173	Orange	0.0601	0.0607	2000	586 (8D)
4 x 400	61 / 2.85	2.0	30.4	3.3	82.0	16708	Orange	0.047	0.0475	2000	656 (8D)
5 x 1.5	7 / 0.53	0.7	3.8	1.8	14.2	241	Orange	12.10	12.20	2000	114 (8D)
5 x 2.5	7 / 0.67	0.7	4.2	1.8	15.3	303	Orange	7.41	7.56	2000	122 (8D)
5 x 4	7 / 0.85	0.7	4.8	1.8	16.7	395	Orange	4.61	4.70	2000	134 (8D)
5 x 6	7 / 1.04	0.7	5.3	1.8	18.3	512	Orange	3.08	3.11	2000	146 (8D)
5 x 10	7 / 1.35	0.7	6.2	1.8	20.9	721	Orange	1.83	1.84	2000	167 (8D)
5 x 16	7 / 1.70	0.7	7.3	1.8	23.8	1041	Orange	1.15	1.16	2000	190 (8D)
5 x 25	7 / 2.14	0.9	9.0	1.8	28.4	1558	Orange	0.727	0.734	2000	227 (8D)
5 x 35	19 / 1.53	0.9	10.3	1.8	32.4	2127	Orange	0.524	0.529	2000	259 (8D)
5 x 50	19 / 1.78	1.0	11.8	1.8	37.1	2865	Orange	0.387	0.391	2000	297 (8D)
5 x 70	19 / 2.14	1.1	13.7	2.1	42.6	3948	Orange	0.268	0.270	2000	341 (8D)
5 x 95	19 / 2.52	1.1	15.7	2.3	48.3	5424	Orange	0.193	0.195	2000	386 (8D)
5 x 120	37 / 2.03	1.2	17.4	2.4	53.2	6644	Orange	0.153	0.154	2000	426 (8D)
5 x 150	37 / 2.25	1.4	19.4	2.6	59.1	8195	Orange	0.124	0.126	2000	473 (8D)