

2xY-FiR

Single Core (Cu/Mica Tape/XLPE/PVC-FR)

APPLICATION

Suitable for use in fixed installations, in applications where maintenance of power supply during a fire is required for a defined period of time such as for essential safety circuits, fire alarm systems and sprinkler systems etc.

STANDARD

IEC 60502-1
IEC 60331-21
BS 6387

VOLTAGE GRADE

U₀/U (Um) : 0.6/1.0 (1.2) kV

COLOR

Insulated core : (Natural)

Sheath : (Red or Other Colors available on request)

CONSTRUCTION

Conductor: Solid / Stranded Circular / Compacted, Plain annealed copper, Class 1 or Class-2 to IEC 60228

Fire barrier: Mica tape (Synthetic or Glass)

Insulation: Cross-linkd Polyethylene, XLPE to IEC 60502-1

Sheath: Flame retardant (FR) PVC, ST-2 to IEC 60502-1



PHYSICAL DATA								ELECTRICAL DATA				
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Thickness Of Mica Tape	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Ground at 30 °C		Current Carrying Capacity in Air at 35 °C	
									Direct laid	In duct	Open	In pipes
Core x mm ²	-	no./mm	mm	mm	mm	mm	Kg/Km	W/Km	amps	amps	amps	amps
1 x 1.5	re	1/1.38	0.11	0.7	1.4	6.2	59	12.1	36	27	30	22
1 x 1.5	rm	7/0.52	0.11	0.7	1.4	6.5	61	12.1	36	27	30	22
1 x 2.5	re	1/1.78	0.11	0.7	1.4	6.7	73	7.41	47	36	39	27
1 x 2.5	rm	7/0.67	0.11	0.7	1.4	6.9	76	7.41	47	36	39	27
1 x 4	rm	7/0.85	0.11	0.7	1.4	7.5	96	4.61	59	45	50	35
1 x 6	rm	7/1.04	0.11	0.7	1.4	8.1	121	3.08	78	60	69	49
1 x 10	rm	7/1.35	0.11	0.7	1.4	9.0	166	1.83	100	76	94	66
1 x 16	rm	7/1.70	0.11	0.7	1.4	10.1	235	1.15	130	100	125	86
1 x 25	rm	7/2.14	0.11	0.9	1.4	11.8	342	0.727	155	116	160	107
1 x 35	rmc	min. 6	0.11	0.9	1.4	12.3	431	0.524	185	140	195	129
1 x 50	rmc	min. 6	0.11	1.0	1.4	13.7	585	0.387	225	172	245	161
1 x 70	rmc	min. 12	0.11	1.1	1.4	15.4	793	0.268	270	206	300	191
1 x 95	rmc	min. 15	0.11	1.1	1.5	17.1	1040	0.193	310	234	350	232
1 x 120	rmc	min. 18	0.11	1.2	1.5	18.8	1296	0.153	350	263	405	267
1 x 150	rmc	min. 18	0.11	1.4	1.6	21.0	1612	0.124	390	295	460	299
1 x 185	rmc	min. 30	0.11	1.6	1.6	23.0	1979	0.0991	450	344	555	339
1 x 240	rmc	min. 34	0.11	1.7	1.7	25.6	2537	0.0754	515	390	640	393
1 x 300	rmc	min. 34	0.11	1.8	1.8	28.3	3140	0.0601	585	443	770	443
1 x 400	rmc	min. 53	0.11	2.0	1.9	32.0	4137	0.0470	680	524	900	502
1 x 500	rmc	min. 53	0.11	2.2	2.0	35.4	5142	0.0366	800	606	1030	566
1 x 630	rmc	min. 53	0.11	2.4	2.2	39.5	6448	0.0283	945	713	1160	645
1 x 800	rmc	min. 53	0.11	2.6	2.3	48.1	8355	0.0221	1095	847	1310	788
1 x 1000	rmc	min. 53	0.11	2.8	2.4	53.5	10450	0.0176	1270	1010	1480	925

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-17

Characteristics



Installation condition

