

2xSEYFGY / A2xSEYFGY | Three Core (Cu or Al/XLPE/CTS or CWS/PVC/FSA/PVC)

APPLICATION

Power plant Switch Gear Generator Industrial Substation Distribution network
Residential network

CONSTRUCTION

Conductor: Stranded Circular Compacted, Plain annealed copper or Aluminium, Class-2 to BDS IEC 60228, IS 8130
Conductor screen: Semi-conducting XLPE to BDS IEC 60502-2, IS 7098-2
Insulation: XLPE to BDS IEC 60502-2, IS 7098-2
Insulation screen: Semi-conductive XLPE to BDS IEC 60502-2, IS 7098-2
Metallic screen: Copper Tape or Copper wire to BDS IEC 60502-2, IS 7098-2
Inner covering: PVC, ST-2 to BDS IEC 60502-2, IS 5831
Armour: Flat Galvanized Steel wire to BDS IEC 60502-2, IS 3975
Binder: Steel Tape (Optional)
Sheath: PVC, ST-2 to BDS IEC 60502-2, IS 5831
Option: FR Type/ FRLS Type

VOLTAGE GRADE

Uo/U (Um) : 6/10 (12) kV **Test Voltage:** 21 kv
Permissible Service Voltage: 5.35/11 kV

OPERATING TEMP

- 20°C to +90°C
 Max Short Circuit 250°C

MIN. BENDING RADIUS

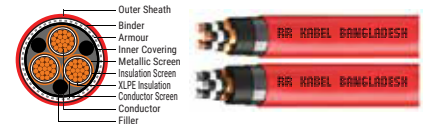
For Single Core
 Approx. 15x Cable Diameter

STANDARD
 BDS IEC 60502-2
 IS 7098-2

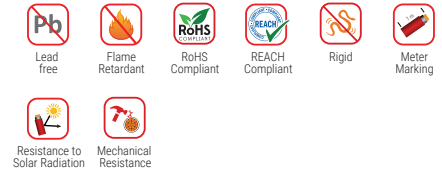
COLOR

Insulated Core: Red, Yellow & Blue core marking tape
Sheath: ● (Red or other colors available on request)

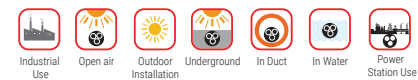
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CHARACTERISTICS



INSTALLATION CONDITION



CABLE DESIGN PARAMETER

PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of conductor	Conductor diameter		Nominal thickness of insulation	Nominal thickness of flat steel armour	Nominal thickness of sheath	Metallic screen		Approx. overall diameter of cable	Approx. weight of cable	
		Minimum	Maximum				thickness of copper tape	area of copper wire		Cu	Al
Core x mm ²	-	mm	mm	mm	mm	mm	mm	mm ²	mm	kg/km	kg/km
3 x 25	rmc	5.6	6.5	3.4	0.8	2.2	0.06	16	47.5	3460	2940
3 x 35	rmc	6.6	7.5	3.4	0.8	2.3	0.06	16	50.5	4020	3350
3 x 50	rmc	7.7	8.6	3.4	0.8	2.4	0.06	16	53.5	4630	3870
3 x 70	rmc	9.3	10.2	3.4	0.8	2.6	0.06	16	57.0	5570	4430
3 x 95	rmc	11.0	12.0	3.4	0.8	2.7	0.06	16	61.5	6600	5180
3 x 120	rmc	12.3	13.5	3.4	0.8	2.8	0.06	16	65.0	7750	5700
3 x 150	rmc	13.7	15.0	3.4	0.8	2.9	0.06	25	68.0	8830	6360
3 x 185	rmc	15.3	16.8	3.4	0.8	3.0	0.06	25	72.5	10320	7200
3 x 240	rmc	17.6	19.2	3.4	0.8	3.2	0.06	25	77.5	12470	8250
3 x 300	rmc	19.7	21.6	3.4	0.8	3.3	0.06	25	83.0	14900	9500

ELECTRICAL DATA

Nominal Cross sectional area	Maximum D.C resistance of conductor at 20 °C		Maximum A.C resistance of conductor at 90 °C		Short circuit rating of conductor in one second		Short circuit rating of metallic screen in one second		Approx. Capacitance of cable	Approx. Inductance of cable	Current rating in ground at 20 °C				Current rating in air at 30 °C	
	Cu	Al	Cu	Al	Cu	Al	Cu tape	Cu wire			In a buried direct		In a buried duct		In air	
											Cu	Al	Cu	Al	Cu	Al
mm ²	Ω/km	Ω/km	Ω/km	Ω/km	kA	kA	kA	kA	μF/km	mH/km	Amp	Amp	Amp	Amp	Amp	Amp
25	0.727	1.20	0.927	1.53	3.6	2.4	0.39	2.40	0.262	0.410	129	100	112	87	143	111
35	0.524	0.868	0.668	1.11	5.0	3.3	0.39	2.40	0.291	0.391	154	119	134	104	172	133
50	0.387	0.641	0.494	0.822	7.2	4.7	0.39	2.40	0.321	0.363	181	140	158	123	205	159
70	0.268	0.443	0.342	0.568	10.0	6.6	0.39	2.40	0.371	0.344	220	171	194	150	253	196
95	0.193	0.320	0.247	0.411	13.6	8.9	0.39	2.40	0.417	0.327	263	204	232	180	307	238
120	0.153	0.253	0.196	0.325	17.2	11.3	0.39	2.40	0.459	0.313	298	232	264	206	352	274
150	0.124	0.206	0.159	0.265	21.5	14.1	0.39	3.75	0.494	0.304	332	259	296	231	397	309
185	0.0991	0.164	0.127	0.211	26.5	17.4	0.39	3.75	0.543	0.294	374	293	335	262	453	354
240	0.0754	0.125	0.098	0.162	34.3	22.6	0.62	3.75	0.583	0.284	431	338	387	304	529	415
300	0.0601	0.100	0.079	0.130	42.9	28.2	0.62	3.75	0.602	0.275	482	380	435	343	599	472