

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-conductive 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) : 3.6/6 (7.2) kV **Test Voltage:** 12.5 kV
Permissible Service Voltage: 3.8/6.5 kV

OPERATING TEMP

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

MIN. BENDING RADIUS

For Single Core
 Approx. 15x Cable Diameter
For Multicore
 Approx. 15x Cable Diameter

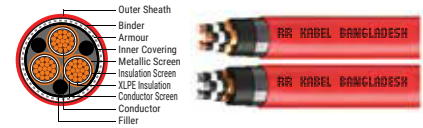
STANDARD

BDS IEC 60502-2
 IS 7098-2

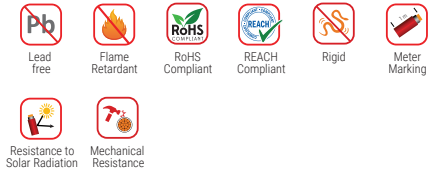
COLOR

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

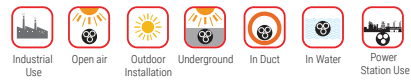
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CHARACTERISTICS



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	2.5	0.8	2.1	0.06	16	43.3	3080	2650
3 x 35	rmc	6.6	7.5	2.5	0.8	2.2	0.06	16	45.8	3550	2940
3 x 50	rmc	7.7	8.6	2.5	0.8	2.3	0.06	16	49.9	4150	3380
3 x 70	rmc	9.3	10.2	2.5	0.8	2.4	0.06	16	52.8	5120	3960
3 x 95	rmc	11.0	12.0	2.5	0.8	2.5	0.06	16	57.0	6250	4755
3 x 120	rmc	12.3	13.5	2.5	0.8	2.6	0.06	16	60.0	7130	5070
3 x 150	rmc	13.7	15.0	2.5	0.8	2.7	0.06	25	64.0	8270	5730
3 x 185	rmc	15.3	16.8	2.5	0.8	2.9	0.06	25	68.0	9780	6620
3 x 240	rmc	17.6	19.2	2.6	0.8	3.0	0.06	25	74.0	11900	7680
3 x 300	rmc	19.7	21.6	2.8	0.8	3.2	0.06	25	80.4	14450	9090

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							
	Cu	Al	Cu	Al	Cu	Al	Cu tape	Cu wire			In a buried direct		In a buried duct		In air			
											Ω/km	Ω/km	Ω/km	Ω/km	kA	kA	kA	kA
mm ²	Ω/km	Ω/km	Ω/km	Ω/km	kA	kA	kA	kA	μF/km	mH/km	Amp	Amp	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	0.387	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	0.369	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	0.343	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	0.325	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	0.309	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	0.298	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	0.289	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	0.281	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	0.273	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	0.267	482	380	435	343	599	472		