

2xSEYBY / A2xSEYBY

Three Core (Cu or Al/XLPE/CTS or CWS/PVC/STA/PVC)

APPLICATION

The three core cables are designed for distribution of electrical power with nominal voltage U_0/U ranging from 3.6/6 kV and frequency 50Hz. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

STANDARD

IEC 60502-2
BDS IEC 60502-2

VOLTAGE GRADE

U_0/U (Um) : 3.6/6 (7.2) kV
Permissible Service Voltage: 3.8/6.5 kV

COLOR

Insulated core : Red, Yellow & Blue core marking tape
Sheath : ■ (Red or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular Compacted, Plain annealed copper or Aluminium, Class-2 to IEC 60228
Conductor screen: Semi-conductive XLPE
Insulation: XLPE to IEC 60502-2
Insulation screen: Semi-conductive XLPE
Metallic screen: Copper Tape or Copper wire to IEC 60502-2
Inner covering: PVC, ST-2 to IEC 60502-2
Armour: Double Steel Tape to IEC 60502-2
Sheath: PVC, ST-2 to IEC 60502-2



PHYSICAL DATA											
Nominal cross sectional area of conductor	Shape of conductor	Conductor diameter		Nominal thickness of insulation	No. & Nominal thickness of steel tape 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	no. x mm	mm	mm	mm ²	mm	kg/km	kg/km
3 x 25	rmc	5.6	6.5	2.5	2x0.5	2.1	0.06	16	43.0	2900	2480
3 x 35	rmc	6.6	7.5	2.5	2x0.5	2.2	0.06	16	46.0	3380	2780
3 x 50	rmc	7.7	8.6	2.5	2x0.5	2.3	0.06	16	49.0	3960	3200
3 x 70	rmc	9.3	10.2	2.5	2x0.5	2.4	0.06	16	53.0	4950	3780
3 x 95	rmc	11.0	12.0	2.5	2x0.5	2.5	0.06	16	57.5	6040	4430
3 x 120	rmc	12.3	13.5	2.5	2x0.5	2.7	0.06	16	61.0	6870	4800
3 x 150	rmc	13.7	15.0	2.5	2x0.5	2.8	0.06	25	64.5	8050	5510
3 x 185	rmc	15.3	16.8	2.5	2x0.5	2.9	0.06	25	68.5	9500	6320
3 x 240	rmc	17.6	19.2	2.6	2x0.5	3.1	0.06	25	74.5	11650	7440
3 x 300	rmc	19.7	21.6	2.8	2x0.5	3.2	0.06	25	80.5	14120	8750

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	W/km	W/km	W/km	W/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	0.387	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	0.297	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	0.28	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

Current ratings are valid for cables laid under defined conditions at page no. 171. For current ratings at deviated conditions, apply correction factor as given on page no.171-173

Characteristics



Installation condition

