

2xSEYFGY / A2xSEYFGY

Three Core (Cu or Al/XLPE/CTS or CWS/PVC/FSA/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: Flat Galvanized Steel wire to IEC 60502-2

Binder: Steel tape (Optional)

Sheath: PVC, ST-2 to IEC 60502-2



MEDIUM VOLTAGE

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				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	
	mm ²	W/km	W/km	W/km	W/km	kA	kA	kA	kA	µF/km	mH/km	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

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.171-175

Characteristics



Installation condition

