

# 2xSEYY / A2xSEYY

## Three Core (Cu or Al/XLPE/CTS or CWS/PVC/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. Suitable for installation in indoors and in cable ducts, outdoors as well as for laying on racks for industrial and switching systems and power plants. Limited use when buried in the earth if the PVC outer jacket could be damaged by high mechanical stress.

### 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-conducting XLPE

**Insulation:** XLPE to IEC 60502-2

**Insulation screen:** Semi-conducting XLPE

**Metallic screen:** Copper Tape or Copper wire to IEC 60502-2

**Inner covering:** PVC, ST-2 to IEC 60502-2

**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 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 <sup>2</sup>	-	mm	mm	mm	mm	mm	mm <sup>2</sup>	mm	kg/km	kg/km
3 x 25	rmc	5.6	6.5	2.5	2.1	0.06	16	41.8	2240	1780
3 x 35	rmc	6.6	7.5	2.5	2.1	0.06	16	44.0	2650	1950
3 x 50	rmc	7.7	8.6	2.5	2.2	0.06	16	47.0	3170	2200
3 x 70	rmc	9.3	10.2	2.5	2.3	0.06	16	51.0	4080	2620
3 x 95	rmc	11.0	12.0	2.5	2.5	0.06	16	55.4	5130	3200
3 x 120	rmc	12.3	13.5	2.5	2.6	0.06	16	58.2	5880	3550
3 x 150	rmc	13.7	15.0	2.5	2.7	0.06	25	62.0	6990	3970
3 x 185	rmc	15.3	16.8	2.5	2.8	0.06	25	66.0	8370	4650
3 x 240	rmc	17.6	19.2	2.6	3.0	0.06	25	72.0	10450	5860
3 x 300	rmc	19.7	21.6	2.8	3.2	0.06	25	79.0	12830	6950

### 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	
											In a buried direct		In a buried duct		In air	
	Cu	Al	Cu	Al	Cu	Al	Cu tape	Cu wire			Cu	Al	Cu	Al	Cu	Al
mm <sup>2</sup>	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	142	110
35	0.524	0.868	0.668	1.11	5.0	3.3	0.39	2.40	0.291	0.369	153	119	133	103	170	132
50	0.387	0.641	0.494	0.822	7.2	4.7	0.39	2.40	0.321	0.343	181	140	158	122	204	158
70	0.268	0.443	0.342	0.568	10.0	6.6	0.39	2.40	0.371	0.325	221	171	193	150	253	196
95	0.193	0.320	0.247	0.411	13.6	8.9	0.39	2.40	0.417	0.309	262	203	231	179	304	236
120	0.153	0.253	0.196	0.325	17.2	11.3	0.39	2.40	0.459	0.297	298	232	264	205	351	273
150	0.124	0.206	0.159	0.265	21.5	14.1	0.39	3.75	0.494	0.289	334	260	297	231	398	309
185	0.0991	0.164	0.127	0.211	26.5	17.4	0.39	3.75	0.543	0.280	377	294	336	262	455	355
240	0.0754	0.125	0.098	0.162	34.3	22.6	0.62	3.75	0.583	0.270	434	340	390	305	531	415
300	0.0601	0.100	0.079	0.130	42.9	28.2	0.62	3.75	0.602	0.267	489	384	441	346	606	475

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

