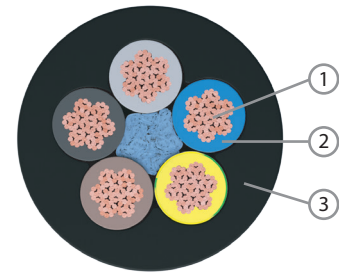
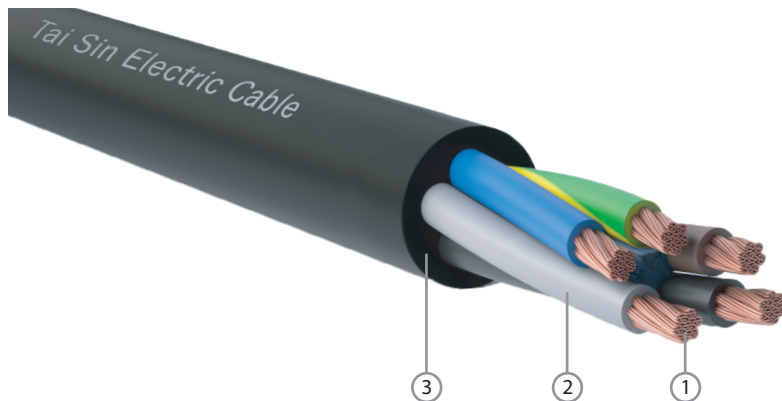


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CU / EPR / EPR (SINGLE & MULTICORE)

Ethylene Propylene Rubber (EPR) Insulated & Sheathed Cable, 450/750V, BS EN 50525-2-21



Component

1. Plain Annealed Flexible Copper Wire (Class 5)
2. Ethylene Propylene Rubber (EPR)
3. Ethylene Propylene Rubber (EPR)

CONSTRUCTION

Conductor:	Plain Annealed Flexible Copper, Class 5 Stranded Circular
Insulation:	Ethylene Propylene Rubber (EPR) Type EI6
Insulation Colour:	1 Core: Black, Green/Yellow, Blue, White, Brown, Grey or Others 2 Cores: Brown, Blue 3 Cores: Brown, Blue, Green/Yellow 4 Cores: Brown, Black, Grey, Green/Yellow 5 Cores: Brown, Black, Grey, Blue, Green/Yellow All sizes upon request: White with Black numberings
Outer Sheath:	Ethylene Propylene Rubber (EPR) Type EM6

Outer Sheath Colour: Black / Other colour upon request

ELECTRICAL CHARACTERISTICS

Operating Voltage:	450/750V or 600/1000V
Operating Temperature:	-15°C to 90°C
Final Short Circuit Temperature:	250°C
Test Voltage:	2.5kV for 5 minutes (450/750V) 3.5kV for 5 minutes (600/1000V)

REFERENCE STANDARDS

Design Specification:	BS EN 50525-2-21, IEC 60502-1
Conductor:	IEC 60228, BS EN 60228
Flame Retardancy:	IEC 60332-1, BS EN 60332-1

INSTALLATION REFERENCE

Min. Bending Radius (mm):	6 x cable overall diameter
Max. Pulling Tension (N/mm ²):	15

SINGLE CORE	Nominal Conductor Area (mm ²)	Approx Conductor Diameter (mm)	Insulation Thickness (mm)	Overall Sheath Thickness (mm)	Approx Cable Overall Diameter (mm)	Approx Cable Weight (kg/km)	Current Carrying Capacity (in free air) [Air 30°C] (A)
	1 x 1.5	1.59	0.8	1.4	6.40	58	16
	1 x 2.5	2.0	0.9	1.4	7.10	74	25
	1 x 4	2.6	1.0	1.5	8.10	103	32
	1 x 6	3.2	1.0	1.6	8.85	132	40
	1 x 10	4.4	1.2	1.8	10.70	202	63
	1 x 16	5.5	1.2	1.9	11.35	279	71
	1 x 25	6.5	1.4	2.0	14.25	391	135
	1 x 35	8.0	1.4	2.2	16.10	531	169
	1 x 50	9.5	1.6	2.4	18.55	718	207
	1 x 70	11.0	1.6	2.6	20.95	954	268
	1 x 95	13.5	1.8	2.8	23.40	1251	328
	1 x 120	14.5	1.8	3.0	25.70	1516	383
	1 x 150	16.5	2.0	3.2	28.30	1891	444
	1 x 185	18.5	2.2	3.4	31.00	2275	510
	1 x 240	20.5	2.4	3.5	34.45	2814	607
	1 x 300	24.0	2.6	3.6	37.70	3516	703

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	Nominal Conductor Area (mm ²)	Approx Conductor Diameter (mm)	Insulation Thickness (mm)	Overall Sheath Thickness (mm)	Approx Cable Overall Diameter (mm)	Approx Cable Weight (kg/km)	Current Carrying Capacity (in free air) [Air 30°C] (A)
2 CORES	2 x 1.0	1.34	0.8	1.3	8.85	102	12
	2 x 1.5	1.59	0.8	1.5	9.75	128	26
	2 x 2.5	2.00	0.8	1.7	11.65	179	36
	2 x 4	2.60	1.0	1.8	13.45	248	49
	2 x 6	3.20	1.0	2.0	14.95	327	63
	2 x 10	4.40	1.0	3.1	20.15	590	86
	2 x 16	5.50	1.0	3.3	22.95	793	115
	2 x 25	6.50	1.2	3.6	27.50	1100	149
3 CORES	3 x 1.0	1.34	0.8	1.4	9.50	128	10
	3 x 1.5	1.59	0.8	1.6	10.55	159	23
	3 x 2.5	2.00	0.9	1.8	12.45	223	32
	3 x 4	2.60	1.0	1.9	14.45	316	42
	3 x 6	3.20	1.0	2.1	16.05	411	54
	3 x 10	4.40	1.2	3.3	21.65	740	75
	3 x 16	5.50	1.2	3.5	24.70	1007	100
	3 x 25	6.50	1.4	3.8	29.55	1412	127
	3 x 35	8.00	1.4	4.1	33.20	1898	158
	3 x 50	9.50	1.6	4.5	38.50	2556	192
	3 x 70	11.0	1.6	4.8	43.35	3335	246
	3 x 95	13.5	1.8	5.3	48.65	4425	298
	3 x 120	14.5	1.8	5.6	53.70	5528	346
	3 x 150	16.5	2.0	6.0	59.00	6901	399
	3 x 185	18.5	2.2	6.4	64.50	8496	456
	3 x 240	20.5	2.4	7.1	73.50	10425	538
4 CORES	4 x 1.0	1.34	0.8	1.5	10.55	159	10
	4 x 1.5	1.59	0.8	1.7	11.65	197	23
	4 x 2.5	2.00	0.9	1.9	13.80	277	32
	4 x 4	2.60	1.0	2.0	15.95	394	42
	4 x 6	3.20	1.0	2.3	17.85	523	54
	4 x 10	4.40	1.2	3.4	23.70	910	75
	4 x 16	5.50	1.2	3.6	26.95	1249	100
	4 x 25	6.50	1.4	4.1	32.75	1795	127
	4 x 35	8.00	1.4	4.4	36.80	2413	158
	4 x 50	9.50	1.6	4.8	42.60	3251	192
	4 x 70	11.0	1.6	5.2	48.35	4280	246
	4 x 95	13.5	1.8	5.9	54.70	5722	298
	4 x 120	14.5	1.8	6.0	59.50	6780	346
	4 x 150	16.5	2.0	6.5	65.50	8486	399
	4 x 185	18.5	2.2	7.0	72.00	10872	456
5 CORES	5 x 1.0	1.34	0.8	1.6	11.65	194	10
	5 x 1.5	1.59	0.8	1.8	12.80	239	23
	5 x 2.5	2.0	0.9	2.0	15.15	341	32
	5 x 4	2.6	1.0	2.2	17.75	488	42
	5 x 6	3.2	1.0	2.5	19.85	645	54
	5 x 10	4.4	1.2	3.6	26.00	1108	75
	5 x 16	5.5	1.2	3.9	29.85	1540	100
	5 x 25	6.5	1.4	4.4	36.20	2208	127

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No. of Cores (mm ²)	Nominal Conductor Area (mm ²)	Approx Conductor Diameter (mm)	Insulation Thickness (mm)	Overall Sheath Thickness (mm)	Approx Cable Overall Diameter (mm)	Approx Cable Weight (kg/km)	Current Carrying Capacity (in free air) [Air 30°C] (A)
6	1.5	1.59	0.8	2.5	15.3	307	16
12		1.59	0.8	2.9	20.0	534	16
18		1.59	0.8	3.2	23.5	749	16
24		1.59	0.8	3.5	27.5	983	16
36		1.59	0.8	3.8	31.5	1363	16
6	2.5	2.0	0.9	2.7	17.85	390	20
12		2.0	0.9	3.1	23.40	700	20
18		2.0	0.9	3.5	27.65	985	20
24		2.0	0.9	3.9	32.60	1292	20
36		2.0	0.9	4.3	37.50	1824	20
6	4.0	2.6	1.0	2.9	20.70	532	25
12		2.6	1.0	3.5	27.65	960	25
18		2.6	1.0	3.9	32.60	1360	25

MULTI-CORES