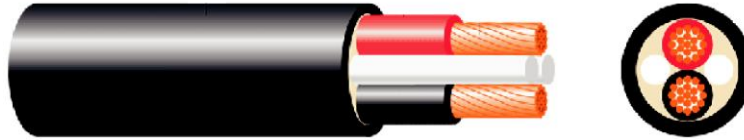


PVC Insulated Copper Conductor Unarmoured Cables

Two Core Unarmoured Cables - Copper Conductors PVC insulated



APPLICATION

Two core cables with copper, PVC insulated and PVC sheathed. These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.

CHARACTERISTICS

Voltage Rating U_0/U
0.6/1kV

Temperature Rating

Minimum Bending Radius

CONSTRUCTION

Conductor

Plain circular solid or stranded, copper conductors, per IEC:60228 class 1 and 2.

Insulation

Heat resistive PVC type 5 to BS6746 rated 85°C for continuous operation (PVC type 1 to BS6746 rated 70°C also available on request). (Two insulated cores are laid up together to form the cable assembly.)

Outer Sheath

PVC type ST2 to IEC 60502 - 1

STANDARDS

IEC: 60502 - 1



CORE IDENTIFICATION

2 core: Red Black
3 core: Red Yellow Blue
4 core: Red Yellow Blue Black
 Green/Yellow

Alternative Core Identification

White cores with Black numbers

Sheath Colour

Black



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DIMENSIONS

Conductor		Insulation	Outer Sheath		Packaging	
Cross sectional area Nominal (mm ²)	Minimum number of wires (No.)	Thickness Nominal (mm)	Thickness Nominal (mm)	Overall diameter Approx (mm)	Net weight Approx kg/km	Standard Package m±5%
1.5re	1	0.8	1.8	12.2	146	1000
1.5rm	7	0.8	1.8	12.6	190	1000
2.5re	1	0.8	1.8	13.0	225	1000
2.5rm	7	0.8	1.8	13.1	240	1000
4re	1	1.0	1.8	14.8	305	1000
4rm	7	1.0	1.8	15.2	315	1000
6re	1	1.0	1.8	15.8	370	1000
6rm	7	1.0	1.8	16.4	390	1000
10re	1	1.0	1.8	17.4	495	1000
10rm	7	1.0	1.8	18.2	530	1000
16rm	7	1.0	1.8	20.2	710	1000
25rm	7	1.2	1.8	23.6	1005	1000
35rm	7	1.2	1.8	25.8	1275	1000

• re - circular solid conductor • rm - circular stranded conductor

CURRENT CARRYING CAPACITY

Conductor Cross Sectional Area (mm ²)	Conductor Resistance		In ground		In air	
	DC at 20°C Maximum ohm/km	AC at 85°C Approx ohm/km	Unarmoured		Unarmoured	
			Direct laid Approx (amps)	Laid in ducts Approx amps	Free Approx Amps	In pipes Approx. Amps
1.5	12.1	15.2	24	20	20	17
2.5	7.41	9.3	32	27	27	22
4	4.61	5.79	42	35	36	29
6	3.08	3.87	52	44	45	37
10	1.83	2.3	70	58	61	50
16	1.15	1.44	91	75	82	65
25	0.727	0.913	117	97	107	84
35	0.524	0.658	146	118	131	101

Ampacity is based on:

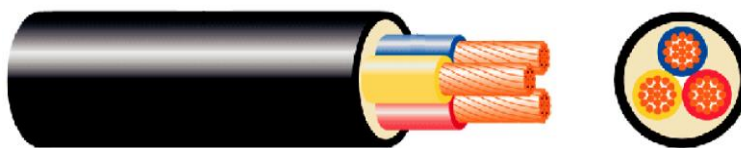
All values are calculated in accordance with IEC 60287

Ground temperature 35°C
 Air ambient temperature 40°C
 Depth of burial 0.5m
 Thermal resistivity of soil 1.2Km/W
 Spacing between cables in flat formation One cable diameter



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Three Core Unarmoured Cables - Copper Conductors PVC insulated



DIMENSIONS

Conductor		Insulation	Outer Sheath		Packaging	
Cross sectional area Nominal (mm ²)	Minimum number of wires (No.)	Thickness Nominal (mm)	Thickness Nominal (mm)	Overall diameter Approx (mm)	Net weight Approx kg/km	Standard Package m±5%
1.5re	1	0.8	1.8	12.7	205	1000
15rm	7	0.8	1.8	13.1	220	1000
2.5re	1	0.8	1.8	13.5	255	1000
2.5rm	7	0.8	1.8	14.0	275	1000
4re	1	1.0	1.8	15.5	350	1000
4rm	7	1.0	1.8	15.9	365	1000
6re	1	1.0	1.8	16.5	440	1000
6rm	7	1.0	1.8	17.2	455	1000
10re	1	1.0	1.8	18.3	600	1000
10rm	7	1.0	1.8	18.0	555	1000
16rm	7	1.0	1.8	20.0	755	1000
25rm	7	1.2	1.8	23.7	1115	1000
35sm	7	1.2	1.8	22.2	1315	1000
50sm	7	1.4	1.8	25.7	1745	1000
70sm	12	1.4	1.9	28.6	2400	500
95sm	15	1.6	2.1	32.9	3200	500
120sm	18	1.6	2.2	37.8	4050	500
150sm	18	1.8	2.3	39.7	4990	500
185sm	30	2.0	2.5	43.9	6205	250/500

• re - circular solid conductor • rm - circular stranded conductor • sm - sectoral stranded conductor



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CURRENT CARRYING CAPACITY

Conductor Cross Sectional Area (mm ²)	Conductor Resistance		In ground		In air	
	DC at 20°C Maximum ohm/km	AC at 85°C Approx ohm/km	Unarmoured		Unarmoured	
			Direct laid Approx (amps)	Laid in ducts Approx amps	Free Approx Amps	In pipes Approx. Amps
1.5	12.1	15.2	24	20	20	17
2.5	7.41	9.3	32	27	27	22
4	4.61	5.79	42	35	36	29
6	3.08	3.87	52	44	45	37
10	1.83	2.3	70	58	61	50
16	1.15	1.44	91	75	82	65
25	0.727	0.913	117	97	107	84
35	0.524	0.658	146	118	131	101
50	0.387	0.486	174	141	161	122
70	0.268	0.337	213	173	202	152
95	0.193	0.244	255	208	249	185
120	0.153	0.194	291	237	289	213
150	0.124	0.158	327	268	332	243
185	0.0991	0.127	368	303	381	277

Ampacity is based on:

Ground temperature 35°C
 Air ambient temperature 40°C
 Depth of burial 0.5m
 Thermal resistivity of soil 1.2Km/W
 Spacing between cables in flat formation One cable diameter



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Four Core Unarmoured Cables - Copper Conductors PVC insulated



DIMENSIONS

Conductor		Insulation	Outer Sheath		Packaging	
Cross sectional area Nominal (mm ²)	Minimum number of wires (No.)	Thickness Nominal (mm)	Thickness Nominal (mm)	Overall diameter Approx (mm)	Net weight Approx kg/km	Standard Package m±5%
1.5re	1	0.8	1.8	13.4	240	1000
1.5rm	7	0.8	1.8	13.9	255	1000
2.5re	1	0.8	1.8	14.4	300	1000
2.5rm	7	0.8	1.8	14.9	310	1000
4re	1	1.0	1.8	16.6	420	1000
4rm	7	1.0	1.8	17.1	435	1000
6re	1	1.0	1.8	17.8	525	1000
6rm	7	1.0	1.8	18.5	545	1000
10re	1	1.0	1.8	19.7	745	1000
10rm	7	1.0	1.8	20.7	760	1000
16rm	7	1.0	1.8	23.1	1050	1000
25rm	7	1.2	1.8	26.0	1460	1000
35sm	7	1.2	1.8	25.1	1690	500/1000
50sm	7	1.4	1.9	29.2	2275	500
70sm	12	1.4	2.1	32.9	3140	500
95sm	15	1.6	2.2	37.6	4280	500
120sm	18	1.6	2.3	39.9	5250	500
150sm	18	1.8	2.5	44.5	6485	250
185sm	30	2.0	2.7	50.3	8095	250
240sm	34	2.2	2.9	56.5	10520	250

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CURRENT CARRYING CAPACITY

Conductor Cross Sectional Area (mm ²)	Conductor Resistance		In ground		In air	
	DC at 20°C Maximum ohm/km	AC at 85°C Approx ohm/km	Unarmoured		Unarmoured	
			Direct laid Approx (amps)	Laid in ducts Approx amps	Free Approx Amps	In pipes Approx. Amps
1.5	12.1	15.2	24	20	20	17
2.5	7.41	9.3	32	27	27	22
4	4.61	5.79	42	35	36	29
6	3.08	3.87	52	44	45	37
10	1.83	2.3	70	58	61	50
16	1.15	1.44	91	75	82	65
25	0.727	0.913	117	97	107	84
35	0.524	0.658	146	118	131	101
50	0.387	0.486	174	141	161	122
70	0.268	0.337	213	173	202	152
95	0.193	0.244	255	208	249	185
120	0.153	0.194	291	237	289	213
150	0.124	0.158	327	268	332	243
185	0.0991	0.127	368	303	381	277
240	0.0754	0.0982	426	352	451	325

Ampacity is based on:

- Ground temperature 35°C
- Air ambient temperature 40°C
- Depth of burial 0.5m
- Thermal resistivity of soil 1.2Km/W
- Spacing between cables in flat formation One cable diameter

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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