

FLEXIBLE CONTROL

Multi-Core (Cu/PVC/PVC)

APPLICATION

The auxiliary cable is used in supervisory electrical equipment and station control circuits, in light, ordinary or heavy duty industry where power distribution device is needed to transmit control signals or measure signal operations

STANDARD

IEC 60227-7

VOLTAGE GRADE

U_0/U : 300/500 V

COLOR

Insulated core : **1** (Black with number print)

Sheath : **■** (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC, PVC/D to IEC 60227-1

Binder: Polyester or Non-woven tape

Sheath: PVC, ST-9 to IEC 60227-1

PHYSICAL DATA & ELECTRICAL DATA						ELECTRICAL DATA		
Number of core & Nominal cross sectional area of conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter		Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Air at 35 °C ambient temp.
				Lower limit	Upper limit			
Core x mm ²	no./mm	mm	mm	mm	mm	kg/km	Ω/km	amp
2 x 0.5 rm	16/0.2	0.6	0.7	5.2	6.6	35	39.0	7
3 x 0.5 rm	16/0.2	0.6	0.7	5.5	7.0	46	39.0	7
5 x 0.5 rm	16/0.2	0.6	0.8	6.8	8.6	75	39.0	5
7 x 0.5 rm	16/0.2	0.6	0.9	8.3	10.4	95	39.0	4
12 x 0.5 rm	16/0.2	0.6	1.1	10.4	12.9	168	39.0	4
18 x 0.5 rm	16/0.2	0.6	1.2	12.3	15.3	240	39.0	3
36 x 0.5 rm	16/0.2	0.6	1.5	17.0	20.9	472	39.0	2
48 x 0.5 rm	16/0.2	0.6	1.7	19.8	24.3	630	39.0	2
2 x 0.75 rm	24/0.2	0.6	0.8	5.7	7.2	48	26.0	11
3 x 0.75 rm	24/0.2	0.6	0.8	6.0	7.6	60	26.0	11
5 x 0.75 rm	24/0.2	0.6	0.9	7.4	9.3	99	26.0	8
7 x 0.75 rm	24/0.2	0.6	1.0	9.0	11.3	120	26.0	7
12 x 0.75 rm	24/0.2	0.6	1.1	11.0	13.7	208	26.0	5
18 x 0.75 rm	24/0.2	0.6	1.3	13.2	16.4	310	26.0	4
36 x 0.75 rm	24/0.2	0.6	1.6	18.2	22.4	598	26.0	3
48 x 0.75 rm	24/0.2	0.6	1.8	21.2	25.9	800	26.0	3
2 x 1.0 rm	32/0.2	0.6	0.8	5.9	7.5	54	19.5	14
3 x 1.0 rm	32/0.2	0.6	0.8	6.3	8.0	70	19.5	14
5 x 1.0 rm	32/0.2	0.6	0.9	7.8	9.8	110	19.5	11
7 x 1.0 rm	32/0.2	0.6	1.0	9.5	11.8	144	19.5	9
12 x 1.0 rm	32/0.2	0.6	1.2	11.8	14.6	248	19.5	8
18 x 1.0 rm	32/0.2	0.6	1.3	14.0	17.2	360	19.5	6
36 x 1.0 rm	32/0.2	0.6	1.7	19.4	23.8	728	19.5	5
48 x 1.0 rm	32/0.2	0.6	1.9	22.5	27.6	960	19.5	5

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

Characteristics



Operating Temperature
-20°C to 70°C



Maximum Short Circuit
160°C



Meter Marking



Lead free



Flame Retardant
IEC 60332-1-2



Test 1.5-2kV

Installation condition



Industrial Use



Outdoor install
or lation



Open air



In Du
ct



FLEXIBLE CONTROL

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STANDARD

IEC 60227-7

VOLTAGE GRADE

U₀/U : 300/500 V

COLOR

Insulated core :  (Black with number print)

Sheath :  (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC, PVC/D to IEC 60227-1

Binder: Polyester or Non-woven tape

Sheath: PVC, ST-9 to IEC 60227-1



PHYSICAL DATA & ELECTRICAL DATA					ELECTRICAL DATA			
Number of core & Nominal cross sectional area of conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter		Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Air at 35 °C ambient temp.
				Lower limit	Upper limit			
Core x mm ²	no./mm	mm	mm	mm	mm	kg/km	Ω/km	amp
2 x 1.5 rm	30/0.25	0.7	0.8	6.8	8.6	73	13.3	17
3 x 1.5 rm	30/0.25	0.7	0.9	7.4	9.4	97	13.3	17
5 x 1.5 rm	30/0.25	0.7	1.0	9.1	11.4	160	13.3	13
7 x 1.5 rm	30/0.25	0.7	1.2	11.3	14.1	205	13.3	11
12 x 1.5 rm	30/0.25	0.7	1.3	13.8	17.0	352	13.3	9
18 x 1.5 rm	30/0.25	0.7	1.5	16.5	20.3	520	13.3	8
36 x 1.5 rm	30/0.25	0.7	2.0	23.0	28.2	1036	13.3	6
48 x 1.5 rm	30/0.25	0.7	2.2	26.2	32.5	1370	13.3	6
2 x 2.5 rm	50/0.25	0.8	0.9	8.2	10.3	102	7.98	24
3 x 2.5 rm	50/0.25	0.8	1.0	9.0	11.2	148	7.98	24
5 x 2.5 rm	50/0.25	0.8	1.1	11.0	13.7	244	7.98	18
7 x 2.5 rm	50/0.25	0.8	1.3	13.6	16.8	315	7.98	16
12 x 2.5 rm	50/0.25	0.8	1.5	16.8	20.6	550	7.98	13
18 x 2.5 rm	50/0.25	0.8	1.8	20.2	24.8	820	7.98	11
36 x 2.5 rm	50/0.25	0.8	2.3	28.0	34.2	1630	7.98	8
48 x 2.5 rm	50/0.25	0.8	2.4	32.1	39.1	2135	7.98	8

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Characteristics



Installation condition



FLEXIBLE CONTROL SHIELD

Multi-Core (Cu/PVC/CWS/PVC)

APPLICATION

The auxiliary cable is used in supervisory electrical equipment and station control circuits, in light, ordinary or heavy duty industry where power distribution device is needed to transmit control signals or measure signal operations

STANDARD

IEC 60227-7

VOLTAGE GRADE

U₀/U : 300/500 V

COLOR

Insulated core : **1** (Black with number print)

Sheath : **■** (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC, PVC/D to IEC 60227-1

Binder (Optional): Polyester or Non-woven tape

Inner sheath: PVC, ST-5 to IEC 60227-1

Shielded: Plain annealed Copper or Tinned Copper, Braided

Sheath: PVC, ST-9 to IEC 60227-1

PHYSICAL DATA & ELECTRICAL DATA					ELECTRICAL DATA				
Number of core & Nominal cross sectional area of conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Diameter of braided wire	Nominal thickness of sheath	Approx. Overall diameter		Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Air at 35 °C ambient temp.
					Lower limit	Upper limit			
Core x mm ²	no./mm	mm	mm	mm	mm	mm	kg/km	Ω/km	amp
2 x 0.5 rm	16/0.2	0.6	0.15	0.9	7.7	9.6	96	39.0	7
3 x 0.5 rm	16/0.2	0.6	0.15	0.9	8.0	10.0	105	39.0	7
5 x 0.5 rm	16/0.2	0.6	0.15	1.0	9.3	11.6	142	39.0	5
7 x 0.5 rm	16/0.2	0.6	0.15	1.1	10.8	13.5	165	39.0	4
12 x 0.5 rm	16/0.2	0.6	0.2	1.3	13.3	16.5	288	39.0	4
18 x 0.5 rm	16/0.2	0.6	0.2	1.3	15.1	18.6	375	39.0	3
2 x 0.75 rm	24/0.2	0.6	0.15	0.9	8.0	10.0	101	26.0	11
3 x 0.75 rm	24/0.2	0.6	0.15	0.9	8.3	10.4	118	26.0	11
5 x 0.75 rm	24/0.2	0.6	0.15	1.0	9.7	12.1	160	26.0	8
7 x 0.75 rm	24/0.2	0.6	0.15	1.2	11.5	14.3	208	26.0	7
12 x 0.75 rm	24/0.2	0.6	0.2	1.3	13.9	17.2	332	26.0	5
18 x 0.75 rm	24/0.2	0.6	0.2	1.5	16.2	19.9	468	26.0	4
2 x 1.0 rm	32/0.2	0.6	0.15	0.9	8.2	10.3	116	19.5	14
3 x 1.0 rm	32/0.2	0.6	0.15	1.0	8.8	11.0	136	19.5	14
5 x 1.0 rm	32/0.2	0.6	0.15	1.1	10.3	12.8	184	19.5	11
7 x 1.0 rm	32/0.2	0.6	0.15	1.2	12.2	15.1	238	19.5	9
12 x 1.0 rm	32/0.2	0.6	0.2	1.4	14.7	18.1	388	19.5	8
18 x 1.0 rm	32/0.2	0.6	0.2	1.5	16.9	20.8	535	19.5	6
2 x 1.5 rm	30/0.25	0.7	0.15	1.0	9.3	11.6	148	13.3	17
3 x 1.5 rm	30/0.25	0.7	0.15	1.0	9.7	12.1	170	13.3	17
5 x 1.5 rm	30/0.25	0.7	0.15	1.2	11.8	14.7	255	13.3	13
7 x 1.5 rm	30/0.25	0.7	0.2	1.3	14.1	17.4	326	13.3	11
12 x 1.5 rm	30/0.25	0.7	0.2	1.5	16.7	20.5	510	13.3	9
18 x 1.5 rm	30/0.25	0.7	0.2	1.7	19.6	24.1	720	13.3	8
2 x 2.5 rm	50/0.25	0.8	0.15	1.1	10.7	13.3	196	7.98	24
3 x 2.5 rm	50/0.25	0.8	0.15	1.1	11.3	14.0	235	7.98	24
5 x 2.5 rm	50/0.25	0.8	0.2	1.3	13.9	17.2	370	7.98	18
7 x 2.5 rm	50/0.25	0.8	0.2	1.5	16.5	20.3	460	7.98	16
12 x 2.5 rm	50/0.25	0.8	0.2	1.7	19.9	24.4	745	7.98	13
18 x 2.5 rm	50/0.25	0.8	0.2	2.0	23.3	28.5	1060	7.98	11

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

Characteristics



Installation condition

