VVR

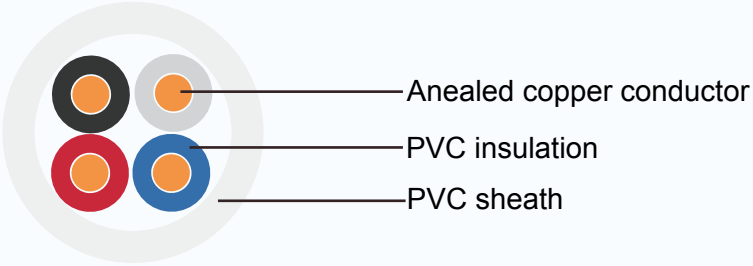
Application and Description

Exposed wiring in air or use in raceway wet or dry location, direct burial in ground.

Reference Standard:

TIS 11-2531

Cable Construction:



Conductor: Solid and stranded annealed copper, Sizes: 0.5 mm^2 up to 35 mm^2
Insulation: Polyvinyl chloride (PVC)
color: Single core – Light gray
2 cores – Light gray and Black
3 cores – Light gray, Black and Red
4 cores – Light gray, Black, Red and Blue
Sheath: Polyvinyl chloride (PVC), white color

Technical Characteristics:

Maximum conductor temperature 70°C
Circuit voltage not exceeding 300 volts
Test voltage 2000 volts

Cable Parameter:

No. of core	Nominal cross section area	Number And diameter of wire	Insulation thickness	Sheath thickness	Max overall diameter	Minimum Insulation resistance at 70 0C	Maximum continuous current rating in free air	Cable weight
	mm^2	No./mm	mm	mm	mm	MΩ-Km	A	Kg/Km
1	0.5	1 / 0.80	0.6	0.9	4.4	0.0146	10	21
	1	1 / 1.13	0.6	0.9	4.8	0.0115	15	28
	1	7 / 0.43	0.6	0.9	5.0	0.0110	15	30
	1.5	1 / 1.38	0.6	0.9	5.2	0.0100	19	34
	1.5	7 / 0.53	0.6	0.9	5.4	0.0094	19	37
	2.5	1 / 1.78	0.7	0.9	5.8	0.0092	26	48
	2.5	7 / 0.67	0.7	0.9	6.2	0.0084	26	50
	4	1 / 2.25	0.8	0.9	6.6	0.0086	35	65
	4	7 / 0.85	0.8	0.9	7.0	0.0078	35	70
	6	7 / 1.04	0.8	0.9	7.6	0.0066	46	95
	10	7 / 1.35	0.9	0.9	8.6	0.0059	64	140
	16	7 / 1.70	1.0	1.2	11.0	0.0053	87	220
	25	7 / 2.14	1.2	1.2	12.5	0.0051	117	330
	35	19 / 1.53	1.2	1.2	14.0	0.0043	144	430
2	0.5	1 / 0.80	0.6	0.9	6.8	0.0146	9	48
	1	1 / 1.13	0.6	0.9	7.6	0.0115	14	65
	1	7 / 0.43	0.6	0.9	8.0	0.0110	14	65
	1.5	1 / 1.38	0.6	1.2	8.8	0.0100	18	90
	1.5	7 / 0.53	0.6	1.2	9.2	0.0094	18	90
	2.5	1 / 1.78	0.7	1.2	10.0	0.0092	24	130
	2.5	7 / 0.67	0.7	1.2	11.0	0.0084	24	130
	4	1 / 2.25	0.8	1.2	11.5	0.0086	32	180
	4	7 / 0.85	0.8	1.2	12.5	0.0078	32	180
	6	7 / 1.04	0.8	1.2	13.5	0.0066	43	260
	10	7 / 1.35	0.9	1.2	16.0	0.0059	60	390
	16	7 / 1.70	1.0	1.4	19.0	0.0053	80	580
	25	7 / 2.14	1.2	1.4	22.5	0.0051	107	870
	35	19 / 1.53	1.2	1.4	25.5	0.0043	132	1130

No. of core	Nominal cross section area	Number And diameter of wire	Insulation thickness	Sheath thickness	Max overall diameter	Minimum Insulation resistance at 70 0C	Maximum continuous current rating in free air	Cable weight
	mm^2	No./mm	mm	mm	mm	MΩ-Km	A	Kg/Km
3	0.5	1 / 0.80	0.6	0.9	7.2	0.0146	7	55
	1	1 / 1.13	0.6	0.9	8.0	0.0115	11	80
	1	7 / 0.43	0.6	0.9	8.4	0.0110	11	80
	1.5	1 / 1.38	0.6	1.2	9.2	0.0100	15	110
	1.5	7 / 0.53	0.6	1.2	9.6	0.0094	15	110
	2.5	1 / 1.78	0.7	1.2	10.5	0.0092	20	160
	2.5	7 / 0.67	0.7	1.2	11.5	0.0084	20	160
	4	1 / 2.25	0.8	1.2	12.5	0.0086	27	230
	4	7 / 0.85	0.8	1.2	13.0	0.0078	27	230
	6	7 / 1.04	0.8	1.2	14.5	0.0066	36	330
	10	7 / 1.35	0.9	1.2	17.0	0.0059	50	490
	16	7 / 1.70	1.0	1.4	20.0	0.0053	67	740
	25	7 / 2.14	1.2	1.8	25.0	0.0051	90	1180
	35	19 / 1.53	1.2	1.8	28.0	0.0043	110	1530
4	0.5	1 / 0.80	0.6	0.9	7.8	0.0146	7	65
	1	1 / 1.13	0.6	0.9	8.6	0.0115	10	100
	1	7 / 0.43	0.6	0.9	9.0	0.0110	10	100
	1.5	1 / 1.38	0.6	1.2	10.0	0.0100	13	130
	1.5	7 / 0.53	0.6	1.2	10.5	0.0094	13	130
	2.5	1 / 1.78	0.7	1.2	11.5	0.0092	18	190
	2.5	7 / 0.67	0.7	1.2	12.5	0.0084	18	190
	4	1 / 2.25	0.8	1.2	13.5	0.0086	25	290
	4	7 / 0.85	0.8	1.2	14.0	0.0078	25	290
	6	7 / 1.04	0.8	1.2	15.5	0.0066	33	410
	10	7 / 1.35	0.9	1.4	19.0	0.0059	45	640
	16	7 / 1.70	1.0v	1.4	22.0	0.0053	60	940
	25	7 / 2.14	1.2	1.8	27.5	0.0051	81	1490
	35	19 / 1.53	1.2	1.8	30.5	0.0043	99	1950