



SINGLE CORE WIRE & CABLE

Customization

Customized colour option and printing of the outer sheath on request

Single Core Cable to Indian Standard

70°C

RJ 0001



Product Description:

PVC insulated cables, manufactured with Copper conductors conforming to Indian Standards.

Application:

- Used in fix wiring, panel wiring, domestic & industrial appliances

Approvals:



Product features

- Good resistance to thermal shock
- ROHS compliant available
- Good Chemical resistance

Colour Codes:

- Core Colour: Black, Red, Blue, Yellow, Grey, White, Green

Make Up:

- Solid/stranded electrolytic grade copper wires
- Insulation -PVC
- Outersheath- PVC

Technical Data:

- **Based on**
Indian Standard IS:694:2010
Conductor : IS 8130:1984
Insulation : Type A of IS 5831:1984
Sheathing : ST 1 Type of IS 5831:1984
- **Conductor stranding**
Class 1or Class 2 of IS 8130:1984
- **Minimum bending radius**
Oscillating flexing : 15 x cable diameter
Fixed installation : 4 x cable diameter
- **Rated voltage**
450/750 V
- **Test voltage**
3000 V rms
- **Range of temperature**
Normal Working Temp.: -15°C up to +70°C

Part number	conductor area mm ²	Strands mm	Unsheathed cable		Sheathed cable			Resistance at 20°C Ohm/km Max.	Current rating Amps	Copper index kg/km
			Insulation thickness mm	Overall dia. mm	Insulation thickness mm	Sheath thickness mm	Overall dia. mm			
RJ 0001										
0001 00301	1.00	1/1.13	0.70	2.70	0.60	0.80	4.15	18.1	10	9.00
0001 00401	1.50	1/1.38	0.70	3.00	0.60	0.80	4.40	12.1	13	13.50
0001 00501	2.50	1/1.78	0.80	3.60	0.70	0.80	5.00	7.41	20	22.50
0001 00501F	2.50	3/1.04	0.80	3.95	0.70	0.80	5.40	7.41	20	22.50
0001 00601	4.00	1/2.24	0.80	4.00	0.80	0.90	5.85	4.61	26	36.00
0001 00601F	4.00	7/0.86	0.80	4.30	0.80	0.90	6.20	4.61	26	36.00
0001 00701	6.00	1/2.76	0.80	4.50	0.80	0.90	6.40	3.08	35	54.00
0001 00701F	6.00	7/1.06	0.80	5.00	0.80	0.90	6.85	3.08	35	54.00
0001 00801	10.00	7/1.35	1.00	6.50	1.00	0.90	8.15	1.83	45	90.00
0001 00901	16.00	7/1.70	1.00	7.70	1.00	1.00	9.30	1.15	55	144.00
0001 01001	25.00	7/2.14	1.20	9.50	1.20	1.10	11.20	0.727	75	225.00
0001 01101	35.00	7/2.52	1.20	10.70	1.20	1.10	12.40	0.524	90	315.00
0001 01201	50.00	7/3.02	1.40	12.50	1.40	1.20	14.70	0.387	120	450.00
0001 01201F	50.00	19/1.83	1.40	12.50	1.40	1.20	15.00	0.387	120	450.00
0001 01301	70.00	19/2.16	1.40	14.50	-	-	-	0.268	150	630.00
0001 01401	95.00	19/2.52	1.60	17.00	-	-	-	0.193	175	855.00
0001 01501	120.00	37/2.03	1.60	18.50	-	-	-	0.153	200	1080.00
0001 01601	150.00	37/2.27	1.80	20.50	-	-	-	0.124	230	1350.00
0001 01701	185.00	37/2.52	2.00	23.00	-	-	-	0.0991	265	1665.00

Note: Put Suffix S, with Part number, for sheathed cable.



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FRLS WIRE (Fire Retardent Low Smoke wire)

90 ° C/105 ° C

RJ 0002



Product Description:

FR/FRLS PVC insulated cables, manufactured with Copper conductors, confirming to IEC 60502/IS 694:2010.

Application:

- This cable is used in extinguishing systems to operate sprinklers & control panels.
- Application usage can be found in exit lights in high-rise buildings, hotels, hospitals, sub-ways, public facilities.
- Internal wiring of devices.

Approvals:



Product features

- Fire Retardent, Low smoke
- Good chemical resistance

Colour Codes:

- Generally cable is made in orange colour but colour can be customized as per requirement Colour (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Yellow/Green)

Technical Data:

- **Based on**
Indian Standard IS:694:2010
Conductor : IS 8130:1984
Insulation : Type A of IS 5831:1984
Sheathing : ST 1 Type of IS 5831:1984

Make Up:

- Fine strands of electrolytic grade copper wires
- Insulation-FR/FRLS PVC
- **Specific insulation resistance**
> 20 G Ohm x cm
- **Conductor stranding**
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
- **Minimum bending radius**
Oscillating flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- **Rated voltage**
450/750 V
- **Test voltage**
3000Vrms
- **FRLS/Flame Properties**
Oxygen Index as per ASTM D 2863
Temperature Index as per ASTM D 2863
Smoke Density Rating as per ASTM D 2843
HCL Acid Gas Generation as per IEC 754/Pt-1
Flammability Test as per IEEE-383
Swedish Chimney Test as per SEN-SS4241475
Thermal Stability as per IS:10810 Pt. 60
- **Range of temperature**
Working Temp.: -20 ° C up to +90 ° C/105 ° C

Part number	Nominal area conductor mm ²	No. & dia. of wires in mm	Thickness of insulation in mm	Overall dia. in mm approx.	Current rating Amps	Weight kg/km approx.
RJ 0002						
0002 00301	1.0	32/0.20	0.7	2.90	10	18
0002 00401	1.5	30/0.25	0.7	3.25	13	24
0002 00501	2.5	50/0.25	0.8	4.00	20	36
0002 00601	4.0	56/0.30	0.8	4.60	26	52
0002 00701	6.0	84/0.30	0.8	5.20	35	72
0002 00801	10	80/0.40	0.8	6.40	45	119
0002 00901	16	128/0.40	1.0	7.70	55	178
0002 01001	25	200/0.40	1.0	9.20	75	275
0002 01101	35	280/0.40	1.2	10.75	90	370
0002 01201	50	400/0.40	1.4	12.75	120	504
0002 01301	70	356/0.50	1.4	14.50	150	706
0002 01401	95	485/0.50	1.4	16.801	175	974
0002 01501	120	614/0.50	1.6	19.10	200	1212
0002 01601	150	765/0.50	1.6	21.00	230	1487
0002 01701	185	944/0.50	2.0	24.00	265	1860



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ZHFR WIRE (Zero Halogen Fire Retardent wire)

90 ° C/105 ° C

RJ 0003



Product Description:

ZHFR insulated cables, manufactured with Copper conductors, conforming to VDE 0207/0250.

Application:

- This cable is used in extinguishing systems to operate sprinklers & control panels.
- Application usage can be found in exit lights in high-rise buildings, hotels, hospitals, sub-ways, public facilities.
- For installation in tubes, in plaster as well as in ducts.
- In building with a high concentration of people or valuables.

Approvals:



Product features

- Fire Retardent, Low smoke, Zero halogen
- Low Corrosivity of the glasses in case of fire.
- Good chemical resistance

Colour Codes:

- Generally cable is made in light blue colour but colour can be customized as per requirement Colour(Black, Red, Blue, Brown, Yellow, Grey, White, Green)

Technical Data:

- Based on
VDE0207/23HJI
VDE0250/503HJ3

Make Up:

- Fine strands of electrolytic grade copper wires
- ZHFR Compound insulation
- **Specific insulation resistance**
> 20 G Ohm x cm
- **Conductor stranding**
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
- **Minimum bending radius**
Oscillating flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- **Rated voltage**
450/750 V
- **Test voltage**
3000Vrms
- **FRLS/Flame Properties**
Oxygen Index as per ASTM D 2863
Temperature Index as per ASTM D 2863
Smoke Density Rating as per ASTM D 2843
HCL Acid Gas Generation as per IEC 754/Pt-1
Flammability Test as per IEC 332 Part 2
Swedish Chimney Test as per SEN-SS4241475
Thermal Stability as per IS:10810 Pt. 60
- **ZHFR Properties**
Corrosivity of gases evolved during combustion pH & conductivity as per IEC-60754-2
- **Range of temperature**
Working Temp.: -20 ° C up to +90 ° C/105 ° C

Part number	Nominal area conductor mm ²	No. & dia. of wires in mm	Thickness of insulation in mm	Overall dia. in mm approx.	Current rating Amps	Weight kg/km approx.
RJ 0401						
0003 00301	1.0	32/0.20	0.7	2.90	10	18
0003 00401	1.5	30/0.25	0.7	3.25	13	24
0003 00501	2.5	50/0.25	0.8	4.00	20	36
0003 00601	4	56/0.30	0.8	4.60	26	52
0003 00701	6	84/0.30	0.8	5.20	35	72
0003 00801	10	80/0.40	0.8	6.40	45	119
0003 00901	16	128/0.40	1.0	7.70	55	178
0003 01001	25	200/0.40	1.0	9.20	75	275
0003 01101	35	280/0.40	1.2	10.75	90	370
0003 01201	50	400/0.40	1.2	12.75	120	504
0003 01301	70	356/0.50	1.4	14.50	150	706
0003 01401	95	485/0.50	1.4	16.80	175	974
0003 01501	120	614/0.50	1.6	19.10	200	1212
0003 01601	150	765/0.50	1.6	21.00	230	1487