FIRE RESISTANT INSTRMENTATION CABLE

Customization
Customized colour option and printing of the outer sheath on request

Fire Resistant Instrumentation cable unscreened 90°C/105°C RJ 0404

Product Description:

This cable is suitable for control, instrumentation and telecommunication in the power stations.

Application:

Application usage can be found in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, high-rise buildings.

Approvals:

RoHS ENVIRONMENTALLY FRIENDLY ISO 9001 QUALITY ASSURANCE IEEE 383 IEC 332-1, 2 CE

Product Features:

- Flame retardant, Low smoke
- Good chemical resistance

Colour Codes:

- Generally cable sheathing is made in orange colour. But colour can be customized, insulation Colours Black, Red, Blue, Brown, Yellow, Grey, White, Green, etc. or numbered.

Technical Data:

- **Design**
  Conductors : Plain Annealed Copper Wire
  Drain wire: Annealed, Tinned, Stranded copper

Make Up:

- Fine strands of electrolytic grade copper wires
- Mica Tape Fire Barrier, on each conductor
- FR/FRLS compound insulation
- Cores twisted to form pairs and collectively twisted
- FR/FRLS compound sheathing

- **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**
  300/500 V
- **Test voltage**
  2 KV/1 min
- **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
  Fire Survival Test as per IEC-331
- **Range of temperature**
  Working Temp.: -20°C up to +90°C/105°C

Part number	Number of pairs/triple	Nominal area conductor mm^2	No. & dia. of wires in mm	Thickness of insulation in mm	Thickness of sheath in mm	Outer dia. in mm approx.	Weight kg/km approx.
RJ 0404							
0404 00201	1(pair)	0.75	24/0.20	0.6	0.8	7.8	92
0404 00301		1.0	32/0.20	0.6	0.8	8.1	102
0404 00401		1.5	30/0.25	0.6	0.8	9.0	120
0404 00501		2.5	50/0.25	0.7	0.9	10.3	160
0404 00201t	1(triple)	0.75	24/0.20	0.6	0.8	8.2	100
0404 00301t		1.0	32/0.20	0.6	0.8	8.6	120
0404 00401t		1.5	30/0.25	0.6	0.8	9.5	142
0404 00501t		2.5	50/0.25	0.7	0.9	10.9	200
0404 00202	2(pairs)	0.75	24/0.20	0.6	0.8	9.2	130
0404 00302		1.0	32/0.20	0.6	0.9	9.8	150
0404 00402		1.5	30/0.25	0.6	0.9	10.6	180
0404 00502		2.5	50/0.25	0.7	1.1	12.5	250
0404 00204	4(pairs)	0.75	24/0.20	0.6	1.2	15.8	225
0404 00304		1.0	32/0.20	0.6	1.2	16.6	260
0404 00404		1.5	30/0.25	0.6	1.2	19.0	325
0404 00504		2.5	50/0.25	0.7	1.2	21.3	450

FIRE RESISTANT INSTRMENTATION CABLE

Customization
Customized colour option and printing of the outer sheath on request

Fire Resistant Instrumentation cable, overall double screened — RJ 0405

Product Description:
This cable is suitable for control, instrumentation and telecommunication in the power stations.

Application:
Application usage can be found in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, high-rise buildings.

Approvals:
RoHS ENVIRONMENTALLY FRIENDLY ISO 9001 QUALITY ASSURANCE IEEE 383 IEC 332-1, 2 CE

Product Features:
- Flame retardant, Low smoke
- Good chemical resistance

Colour Codes:
- Generally cable sheathing is made in orange colour. But colour can be customized, insulation Colours Black, Red, Blue, Brown, Yellow, Grey, White, Green, etc. or numbered.

Technical Data:
- **Design**
  Conductors : Plain Annealed Copper Wire
  Drain wire: Annealed, Tinned, Stranded copper
  Shield: Copper braid

Make Up:
- Fine strands of electrolytic grade copper wires
- Mica Tape Fire Barrier, on each conductor
- FR/FRLS Compound insulation
  Core twisted in pairs and collectively Al Mylar tape wrapped with drain wire, TPC Screened
- FR/FRLS compound sheathing
- **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**
  300/500 V
- **Test voltage**
  2 KV/1 min
- **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
  Fire Survival Test as per IEC-331
- **Range of temperature**
  Working Temp.: -20 °C up to +90 °C/105 °C

Part number	Number of pairs/triple	Nominal area conductor mm²	No. & dia. of wires in mm	Thickness of insulation in mm	Thickness of sheath in mm	Outer dia. in mm approx.	Copper index kg/km
RJ 0405							
0405 10301	1(pair)	0.75	24/0.20	0.6	1.3	9.30	42.50
0405 00301		1.0	32/0.20	0.6	1.3	9.70	48.54
0405 00401		1.5	30/0.25	0.6	1.4	10.40	60.44
0405 00501		2.5	50/0.25	0.7	1.4	11.40	82.26
0405 00201t	1(triple)	0.75	24/0.20	0.6	1.3	9.80	51.50
0405 00301t		1.0	32/0.20	0.6	1.4	10.30	59.64
0405 00401t		1.5	30/0.25	0.6	1.4	11.00	76.86
0405 00501t		2.5	50/0.25	0.7	1.4	12.50	107.70
0405 00202	2(pairs)	0.75	24/0.20	0.6	1.4	11.00	72.10
0405 00302		1.0	32/0.20	0.6	1.4	11.50	83.40
0405 00402		1.5	30/0.25	0.6	1.4	12.20	106.72
0405 00502		2.5	50/0.25	0.7	1.5	13.40	149.52
0405 00204	4(pairs)	0.75	24/0.20	0.6	1.5	16.40	118.70
0405 00304		1.0	32/0.20	0.6	1.6	17.30	142.00
0405 00404		1.5	30/0.25	0.6	1.6	18.50	183.50
0405 00504		2.5	50/0.25	0.7	1.7	20.70	260.80