PTFE EQUIPMENT WIRES & CABLE

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

PTFE EQUIPMENT WIRES & CABLE, SINGLE CORE

Type ET (250 V AC rms working)	**-65°C to 200°C/260°C**	**RJ 0501**
Type E (600 V AC rms working)	**-65°C to 200°C/260°C**	**RJ 0502**
Type EE (1000 V AC rms working)	**-65°C to 200°C/260°C**	**RJ 0503**

Product Description:
Outstanding electrical, mechanical and dielectric properties, heat resistant, wide range of wiring application, durable polymer.
High temperature application upto +260°C & below -65°C

Application:
- Particular attention should be drawn to the excellent resistance to corrosive synthetic hydraulic liquids , as used
- The wires made of PTFE insulation are light weight compact, have excellence thermal stability.
- **Approvals:**

Product Features:
- Non toxic, non flammable, total flame resistant
- Resistant to acid , alkalis, solvent, synthetic, liquids and oils
- Extremely flexible, high tensile strength
- Total weather and ozone resistance

Colour Codes:
- Colour: Coloured (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Orange)

Technical Data:
- **Based on**
  US military MIL-W-16878
  Indian Defence JSS 51034.92

Make Up:
- Fine strands of electrolytic grade copper wires
- Silver Plated Copper/Nickel Plated Copper as per temperature application
- PTFE compound insulation
- **Insulation resistance**
  2G ohm x Km
- **Radiation resistance**
  3×10^7 CJ/Kg
- **Spark Test on core**
  ET- 250 V ACrms Grade 2.4 KV
  E - 600 V ACrms Grade 3.4 KV
  EE- 1000 V ACrms Grade 5.0KV
- **Test voltage on cable**
  ET- 250 V ACrms Grade 1.5 KV
  E - 600 V ACrms Grade 2.0 KV
  EE- 1000 V ACrms Grade 3.0KV
- **Insulation radial thickness**
  ET- 250 V ACrms Grade 0.15 mm. nominal
  E - 600 V ACrms Grade 0.25 mm. nominal
  EE- 1000 V ACrms Grade 0.40 mm. nominal
- **Minimum bending radius**
  10 x cable diameter
- **Dielectric constant**
  2.1 in range from 0 Hz to 10^9 Hz(-65 °C to 200 °C)
- **Temperature range**
  -65 °C to 200 °C for Silver Plated Copper
  -65 °C to 260 °C for Nickel Plated Copper

Note: 1. Economical version with Bare Copper Wire can be also be supplied, but recommended temperature range is 150 °C.
2. The Nickel Plated can not be soldered, only crimping to be used.
3. For Silver/Nickel Plating suffix S/N may be added to show the plating on basic conductor & shield.

Type ET (250 V ACrms working) RJ 0501

Part number	Conductor size AWG	No. & dia. of strand in mm	Cross-section mm^2	Current Amp. Nominal at Ambient 30°C	Outer diameter in mm	Copper index kg/km
RJ 0501						
30101 S/N	32	1/0.20	0.03	0.7	0.60	0.27
30102 S/N	30	1/0.25	0.05	1.0	0.61	0.45
30103 S/N	28	1/0.32	0.08	2.1	0.69	0.72
30104 S/N	26	1/0.40	0.13	3.0	0.76	1.26
30105 S/N	24	1/0.51	0.20	4.0	0.86	1.80
30106 S/N	22	1/0.64	0.32	7.0	1.02	3.00
30107 S/N	20	1/0.81	0.51	10.0	1.17	4.63
30108 S/N	32	7/0.08	0.03	0.7	0.61	0.31
30109 S/N	30	7/0.10	0.06	1.0	0.66	0.54
30110 S/N	28	7/0.13	0.09	2.1	0.74	0.81
30111 S/N	26	7/0.16	0.14	3.0	0.84	1.26
30112 S/N	24	7/0.20	0.22	4.0	0.97	2.10
30113 S/N	22	7/0.25	0.35	7.3	1.12	3.20
30114 S/N	20	7/0.32	0.56	11.0	1.32	5.20
30115 S/N	28	19/0.08	0.09	2.3	0.80	0.81
30116 S/N	26	19/0.10	0.15	3.0	0.84	1.35
30117 S/N	24	19/0.13	0.24	4.0	0.97	2.20
30118 S/N	22	19/0.16	0.38	7.3	1.12	3.50
30119 S/N	20	19/0.20	0.60	11.0	1.32	5.60

Type E (600 V ACrms working) RJ 0502

Part number	Conductor size AWG	No. & dia. of strand in mm	Cross-section mm^2	Current Amp. Nominal at Ambient 30°C	Outer diameter in mm	Copper index kg/km
RJ 0502						
30201 S/N	32	1/0.20	0.03	0.7	0.81	0.27
30202 S/N	30	1/0.25	0.05	1.0	0.86	0.45
30203 S/N	28	1/0.32	0.08	2.1	0.94	0.72
30204 S/N	26	1/0.40	0.13	3.0	1.02	1.26
30205 S/N	24	1/0.51	0.20	4.0	1.12	1.80
30206 S/N	22	1/0.64	0.32	7.0	1.27	3.00
30207 S/N	20	1/0.81	0.51	10.0	1.42	4.63
30208 S/N	18	1/1.02	0.82	15.0	1.68	7.40
30209 S/N	16	1/1.29	1 .30	22.0	2.06	11.70
30210 S/N	32	7/0.08	0.03	0.7	0.86	0.27
30211 S/N	30	7/0.10	0.06	1.0	0.91	0.54
30212 S/N	28	7/0.13	0.09	2.1	0.99	0.81
30213 S/N	26	7/0.16	0.14	3.0	1.09	1.26
30214 S/N	24	7/0.20	0.22	4.0	1.22	2.10
30215 S/N	22	7/0.25	0.35	7.3	1.37	3.20
30216 S/N	20	7/0.32	0.56	11.0	1.58	5.20
30217 S/N	18	7/0.40	0.88	16.0	1.88	8.00
30218 S/N	16	7/0.50	1.37	22.0	2.20	12.35
30219 S/N	28	19/0.08	0.09	2.3	0.87	0.81
30220 S/N	26	19/0.10	0.15	3.0	1.09	1.35
30221 S/N	24	19/0.13	0.24	4.0	1.22	2.20
30222 S/N	22	19/0.16	0.38	7.3	1.37	3.50
30223 S/N	20	19/0.20	0.60	11.0	1.58	5.60
30224 S/N	18	19/0.25	0.96	16.0	1.88	8.70
30225 S/N	16	19/0.29	1.25	22.0	2.21	12.00
30226 S/N	15	19/0.32	1.50	26.0	2.28	13.50
30227 S/N	14	19/0.36	1.93	32.0	2.59	18.00
30228 S/N	13	19/0.40	2.38	35.0	2.74	22.50
30229 S/N	12	19/0.45	3.02	41.0	3.07	28.00
30230 S/N	11	19/0.50	3.73	45.0	3.30	35.00
30231 S/N	10	19/0.65	6.30	55.0	4.03	56.70
30232 S/N	09	19/0.81	9.80	70.0	5.05	88.20
30233 S/N	08	19/0.91	12.35	100.0	5.55	111.15
30234 S/N	12	37/0.32	2.97	41.0	3.02	27.00
30235 S/N	10	37/0.40	4.64	50.0	3.58	43.00

Type EE (1000 V AC rms working) RJ 0503

Part number	Conductor size AWG	No. & dia. of strand in mm	Cross-section mm^2	Current Amp. Nominal at Ambient 30°C	Outer diameter in mm	Copper index kg/km
RJ 0503						
30301 S/N	32	1/0.20	0.03	0.7	1.07	0.27
30302 S/N	30	1/0.25	0.05	1.0	1.12	0.45
30303 S/N	28	1/0.32	0.08	2.1	1.19	0.72
30304 S/N	26	1/0.40	0.13	3.0	1.27	1.26
30305 S/N	24	1/0.50	0.20	4.0	1.37	1.80
30306 S/N	22	1/0.64	0.32	7.0	1.52	3.00
30307 S/N	20	1/0.81	0.51	10.0	1.68	4.63
30308 S/N	18	1/1.02	0.82	15.0	1.93	7.40
30309 S/N	16	1/1.29	1.30	22.0	2.26	11.70
30310 S/N	30	7/0.10	0.06	1.0	1.17	0.54
30311 S/N	28	7/0.13	0.09	2.1	1.25	0.81
30312 S/N	26	7/0.16	0.14	3.0	1.35	1.26
30313 S/N	24	7/0.20	0.22	4.0	1.47	2.10
30314 S/N	22	7/0.25	0.34	7.3	1.63	3.20
30315 S/N	20	7/0.32	0.56	11.0	1.83	5.20
30316 S/N	18	7/0.40	0.88	16.0	2.13	8.00
30317 S/N	16	7/0.50	1.37	22.0	2.41	12.35
30318 S/N	28	19/0.08	0.09	2.1	1.24	0.81
30319 S/N	26	19/0.10	0.15	3.0	1.35	1.35
30320 S/N	24	19/0.13	0.24	4.5	1.47	2.20
30321 S/N	22	19/0.16	0.38	7.3	1.63	3.50
30322 S/N	20	19/0.20	0.60	11.0	1.83	5.60
30323 S/N	18	19/0.25	0.96	16.0	2.13	8.70
30324 S/N	16	19/0.29	1.25	22.0	2.41	12.00
30325 S/N	15	19/0.32	1.50	26.0	2.49	13.50
30326 S/N	14	19/0.36	1.93	32.0	2.90	18.00
30327 S/N	13	19/0.40	2.38	35.0	3.02	22.50
30328 S/N	12	19/0.45	3.02	41.0	3.38	28.00
30329 S/N	11	19/0.50	3.73	45.0	3.58	35.00
30330 S/N	10	19/0.65	6.30	55.0	4.34	56.70
30331 S/N	09	19/0.81	9.80	70.0	5.20	88.20
30332 S/N	08	19/0.91	12.35	100.0	5.56	111.15
30333 S/N	20	37/0.13	0.47	10.0	1.82	4.23
30334 S/N	18	37/0.16	0.74	15.0	2.13	6.70
30335 S/N	16	37/0.20	1.20	20.0	2.41	11.00
30336 S/N	14	37/0.25	1.90	32.0	2.75	17.10
30337 S/N	13	37/0.29	2.40	35.0	3.03	21.60
30338 S/N	12	37/0.32	2.97	41.0	3.33	27.00
30339 S/N	11	37/0.36	3.80	45.0	3.58	34.20
30340 S/N	10	37/0.40	4.64	50.0	3.89	43.00
30341 S/N	12	60/0.25	3.00	41.0	3.37	27.00
30342 S/N	11	60/0.29	3.96	45.0	3.70	35.10
30343 S/N	10	60/0.32	4.80	50.0	3.95	43.20
30344 S/N	09	60/0.36	6.10	55.0	4.40	54.98
30345 S/N	08	60/0.40	7.70	60.0	4.80	69.30
30346 S/N	06	60/0.51	12.30	100.0	5.80	110.26
30347 S/N	08	133/0.29	8.60	75.0	5.56	79.00
30348 S/N	06	133/0.36	13.59	100.0	6.93	122.00

PTFE EQUIPMENT WIRES & CABLE

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

PTFE CABLE,MULTI CORE

Type ET (250 V AC rms working)	**200/260°C**	**RJ 0504**
Type E (600 V AC rms working)	**200/260°C**	**RJ 0505**
Type EE (1000 V AC rms working)	**200/260°C**	**RJ 0506**

Product Description:

A wide variety of multicore cables for use in instrumentation of power projects, chemical & fertilizers, steel plants & various other type of Engineering industries.

Make Up:

- Fine strands of Bare Copper/ SPC wires/ NPC wires
- PTFE insulation
- PTFE Isolator
- Silver Plated Copper / Nickel Plated Copper wires Shielded as per temperature application
- PTFE Outer Jacket

Application:

- Particular attention should be drawn to the excellent resistance to corrosive synthetic hydraulic liquids ,as used,
- The wires made of PTFE insulation are light weight compact, have excellence thermal stability.
- Electrical devices&Appliances and machinery.
- **Approvals:**

Product Features:

- Total Flame- Resistance
- Extremely Flexible; high tensile strength
- Resistant to acids, alkalis, solvent, Synthetic, liquids and oil.
- High resistance to radiation during and after radiation, in air and also in vacuum

Colour Codes:

- Colour: Coloured (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Orange)

Technical Data:

- **Based on**
  US military MIL-C-27500-G
  Indian Defence JSS 51038.02
  Indian Defence JSS 51034: 1992 for inner cores
- **Insulation resistance**
  2G ohm x Km
- **Radiation resistance**
  3×10^7 CJ/Kg
- **Spark Test on core**
  ET- 250 V ACrms Grade 2.4 KV
  E - 600 V ACrms Grade 3.4 KV
  EE- 1000 V ACrms Grade 5.0KV
- **Test voltage on cable**
  ET- 250 V ACrms Grade 1.5 KV core to core/1KV core to shield
  E - 600 V ACrms Grade 2.0 KV core to core/1KV core to shield
  EE- 1000 V ACrms Grade 3.0KV core to core/1KV core to shield
- **Insulation radial thickness (Core)**
  ET- 250 V ACrms Grade 0.15 mm. nominal
  E - 600 V ACrms Grade 0.25 mm. nominal
  EE- 1000 V ACrms Grade 0.40 mm. nominal
- **Minimum bending radius**
  10 x cable diameter
- **Dielectric constant**
  2.1 in range from 0 Hz to 10^9Hz(100 °C to 200 °C)
- **Temperature range**
  -100 °C to 200 °C for Silver Plated Copper(SPC)
  -100 °C to 260 °C for Nickel Plated Copper(NPC)

Note: 1. Economical version with Bare Copper Wire can be also be supplied, but recommended temperature range is 150 °C.
2. The Nickel Plated can not be soldered, only crimping to be used.
3. For Silver/Nickel Plating suffix S/N may be added to show the plating on basic conductor & shield.

Type ET (250 V AC rms working) RJ 0504

Part number	Number of cores	Cross section mm²	No. & dia. of strand in mm	Overall dia. in mm approx.		Copper index kg/km	
				Unshielded in mm	Shielded in mm	Unshielded	Shielded
RJ 0504							
30401 S/N	2	0.14	7/0.16	2.30	3.00	2.52	8.02
30402 S/N	3	0.14	7/0.16	2.40	3.10	3.78	9.78
30403 S/N	4	0.14	7/0.16	2.60	3.30	5.04	11.64
30404 S/N	6	0.14	7/0.16	3.25	4.10	7.56	14.56
30405 S/N	8	0.14	7/0.16	3.50	4.40	10.08	19.32
30406 S/N	10	0.14	7/0.16	4.20	5.00	12.60	23.00
30407 S/N	12	0.14	7/0.16	4.40	5.20	15.12	25.48
30408 S/N	2	0.22	7/0.20	2.50	3.20	4.20	12.80
30409 S/N	3	0.22	7/0.20	2.70	3.40	6.30	15.62
30410 S/N	4	0.22	7/0.20	2.90	3.60	8.40	18.81
30411 S/N	6	0.22	7/0.20	3.70	4.50	12.60	25.60
30412 S/N	8	0.22	7/0.20	4.00	4.80	16.80	31.60
30413 S/N	10	0.22	7/0.20	4.70	5.50	21.00	37.60
30414 S/N	12	0.22	7/0.20	4.90	5.80	25.20	41.80
30415 S/N	2	0.50	7/0.30	3.30	4.00	9.00	19.60
30416 S/N	3	0.50	7/0.30	3.40	4.20	13.50	25.00
30417 S/N	4	0.50	7/0.30	3.80	4.50	18.00	31.00
30418 S/N	6	0.50	7/0.30	4.80	5.50	27.00	43.23
30419 S/N	8	0.50	7/0.30	5.20	6.00	36.00	55.00
30420 S/N	10	0.50	7/0.30	6.20	6.80	45.00	66.00
30421 S/N	12	0.50	7/0.30	6.30	7.00	54.00	75.00
30422 S/N	14	0.50	7/0.30	6.80	7.80	63.00	86.35

Type E (600 V AC rms working) RJ 0505

Part number	Number of cores	Cross section mm²	No. & dia. of strand in mm	Overall dia. in mm approx.		Copper index kg/km	
				Unshielded in mm	Shielded in mm	Unshielded	Shielded
RJ 0505							
30501 S/N	2	0.75	19/0.23	4.1	4.9	14.20	27.53
30502 S/N	3	0.75	19/0.23	4.4	5.1	21.30	35.72
30503 S/N	4	0.75	19/0.23	4.8	5.6	28.40	44.65
30504 S/N	6	0.75	19/0.23	6.0	6.7	42.60	66.60
30505 S/N	8	0.75	19/0.23	6.6	7.5	56.80	84.52
30506 S/N	10	0.75	19/0.23	7.9	8.7	71.00	102.10
30507 S/N	12	0.75	19/0.23	8.2	9.1	85.20	116.30
30508 S/N	20	0.75	19/0.23	10.2	11.0	142.00	183.80
30509 S/N	2	1.00	19/0.25	4.4	5.0	17.40	31.40
30510 S/N	3	1.00	19/0.25	4.6	5.3	26.10	41.30
30511 S/N	4	1.00	19/0.25	5.0	5.8	34.80	52.20
30512 S/N	6	1.00	19/0.25	6.4	6.9	52.00	77.20
30513 S/N	8	1.00	19/0.25	6.9	7.8	69.60	98.60
30514 S/N	10	1.00	19/0.25	8.4	9.1	87.00	119.76
30515 S/N	12	1.00	19/0.25	8.6	9.4	104.40	137.16
30516 S/N	20	1.00	19/0.25	10.7	11.5	174.00	218.10
30517 S/N	2	1.50	19/0.32	5.2	6.0	27.00	43.60
30518 S/N	3	1.50	19/0.32	5.6	6.3	40.50	58.55
30519 S/N	4	1.50	19/0.32	6.1	6.9	54.00	78.00
30520 S/N	6	1.50	19/0.32	7.7	8.5	81.00	111.24
30521 S/N	8	1.50	19/0.32	8.5	9.3	108.00	142.56
30522 S/N	10	1.50	19/0.32	10.1	11.0	135.00	174.50
30523 S/N	12	1.50	19/0.32	10.4	11.3	162.00	201.50
30524 S/N	20	1.50	19/0.32	13.1	14.0	270.00	323.34

Note: For shielded cables, put shielded(SH), with the given part number, like 30401S for 2 core 0.14sqmm PTFE insulated cores and PTFE jacketed silver plated and 30401S/SH for 2 core 0.14sqmm PTFE cores and overall Silver plated copper braid shielded, and PTFE Jacketed.

Type EE (1000 V AC rms working) RJ 0506

Part number	Number of cores	Cross section mm^2	No. & dia. of strand in mm	Overall dia. in mm approx.		Copper index kg/km	
				Unshielded in mm	Shielded in mm	Unshielded	Shielded
RJ 0506							
30601 S/N	2	2.50	19/0.40	6.80	7.40	45.00	69.00
30602 S/N	4	2.50	19/0.40	8.00	860	90.00	119.82
30603 S/N	6	2.50	19/0.40	9.70	10.40	135.00	172.80
30604 S/N	8	2.50	19/0.40	11.00	11.70	180.00	223.68
30605 S/N	10	2.50	19/0.40	12.90	13.60	225.00	274.56
30606 S/N	12	2.50	19/0.40	13.40	14.10	270.00	319.56
30607 S/N	14	2.50	19/0.40	14.20	15.10	315.00	370.50
30608 S/N	20	2.50	19/0.40	17.00	18.00	450.00	517.20
30609 S/N	2	4.00	19/0.51	8.30	9.00	70.00	98.56
30610 S/N	3	4.00	19/0.51	8.80	9.50	105.00	136.10
30611 S/N	4	4.00	19/0.51	9.80	10.40	140.00	175.28
30612 S/N	6	4.00	19/0.51	11.90	12.60	210.00	255.36
30613 S/N	8	4.00	19/0.51	13.20	14.00	280.00	332.50
30614 S/N	10	4.00	19/0.51	15.60	16.50	350.00	409.64
30615 S/N	12	4.00	19/0.51	16.20	16.80	420.00	479.64
30616 S/N	20	4.00	19/0.51	20.40	21.00	700.00	781.10

Note: For shielded cables, put shielded(SH), with the given part number, like 30401S for 2 core 0.14sqmm PTFE insulated cores and PTFE jacketed silver plated and 30401S/SH for 2 core 0.14sqmm PTFE cores and overall Silver plated copper braid shielded, and PTFE Jacketed.

FEP EQUIPMENT WIRES & CABLE

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

FEP EQUIPMENT WIRES & CABLE, SINGLE CORE

Type ET (250 V AC rms working)	**205°C**	**RJ 0507**
Type E (600 V AC rms working)	**205°C**	**RJ 0508**
Type EE (1000 V AC rms working)	**205°C**	**RJ 0509**

Product Description:
Outstanding electrical, mechanical and dielectric properties, heat resistant, wide range of wiring application, durable polymer.
High temperature application upto +205°C & below -65°C

Application:
- Particular attention should be drawn to the excellent resistance to corrosive synthetic hydraulic liquids , as used
- The wires made of FEP insulation are light weight compact, have excellence thermal stability.
- **Approvals:**

Product Features:
- Non toxic, non flammable, total flame resistant
- Resistant to acid , alkalis, solvent, synthetic, liquids and oils
- Extremely flexible, high tensile strength
- Total weather and ozone resistance

Colour Codes:
- Colour: Coloured (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Orange)

Technical Data:
- **Based on**
  US military MIL-W-16878
  Indian Defence JSS 51034.92

Make Up:
- Fine strands of electrolytic grade copper wires
- Tinned Plated Copper/Silver Plated Copper
- FEP compound insulation

- **Insulation resistance**
  2G ohm x Km
- **Radiation resistance**
  3×10^7 CJ/Kg
- **Spark Test on core**
  ET- 250 V ACrms Grade 2.4 KV
  E - 600 V ACrms Grade 3.4 KV
  EE- 1000 V ACrms Grade 5.0KV
- **Test voltage on cable**
  ET- 250 V ACrms Grade 1.5 KV
  E - 600 V ACrms Grade 2.0 KV
  EE- 1000 V ACrms Grade 3.0KV
- **Insulation radial thickness**
  ET- 250 V ACrms Grade 0.15 mm. nominal
  E - 600 V ACrms Grade 0.25 mm. nominal
  EE- 1000 V ACrms Grade 0.40 mm. nominal
- **Minimum bending radius**
  10 x cable diameter
- **Dielectric constant**
  2.1 in range from 0 Hz to 10^9 Hz(100 °C to 200 °C)
- **Temperature range**
  -65 °C to 205 °C for Silver/Tinned Plated Copper

Note: 1. Economical version with Bare Copper Wire can be also be supplied, but recommended temperature range is 150 °C.
2. For Tinned/Silver Plating suffix T/S may be added to show the plating on basic conductor & shield.

Type ET (250 V ACrms working) — RJ 0507

Part number	Conductor size AWG	No. & dia. of strand in mm	Cross-section mm^2	Current Amp. Nominal at Ambient 30°C	Outer diameter in mm	Copper index kg/km
RJ 0507						
30101 T/S	32	1/0.20	0.03	0.7	0.60	0.27
30102 T/S	30	1/0.25	0.05	1.0	0.61	0.45
30103 T/S	28	1/0.32	0.08	2.1	0.69	0.72
30104 T/S	26	1/0.40	0.13	3.0	0.76	1.26
30105 T/S	24	1/0.51	0.20	4.0	0.86	1.80
30106 T/S	22	1/0.64	0.32	7.0	1.02	3.00
30107 T/S	20	1/0.81	0.51	10.0	1.17	4.63
30108 T/S	32	7/0.08	0.03	0.7	0.61	0.31
30109 T/S	30	7/0.10	0.06	1.0	0.66	0.54
30110 T/S	28	7/0.13	0.09	2.1	0.74	0.81
30111 T/S	26	7/0.16	0.14	3.0	0.84	1.26
30112 T/S	24	7/0.20	0.22	4.0	0.97	2.10
30113 T/S	22	7/0.25	0.35	7.3	1.12	3.20
30114 T/S	20	7/0.32	0.56	11.0	1.32	5.20
30115 T/S	28	19/0.08	0.09	2.3	0.80	0.81
30116 T/S	26	19/0.10	0.15	3.0	0.84	1.35
30117 T/S	24	19/0.13	0.24	4.0	0.97	2.20
30118 T/S	22	19/0.16	0.38	7.3	1.12	3.50
30119 T/S	20	19/0.20	0.60	11.0	1.32	5.60

Type E (600 V ACrms working) — RJ 0508

Part number	Conductor size AWG	No. & dia. of strand in mm	Cross-section mm^2	Current Amp. Nominal at Ambient 30°C	Outer diameter in mm	Copper index kg/km
RJ 0508						
30201 T/S	32	1/0.20	0.03	0.7	0.81	0.27
30202 T/S	30	1/0.25	0.05	1.0	0.86	0.45
30203 T/S	28	1/0.32	0.08	2.1	0.94	0.72
30204 T/S	26	1/0.40	0.13	3.0	1.02	1.26
30205 T/S	24	1/0.51	0.20	4.0	1.12	1.80
30206 T/S	22	1/0.64	0.32	7.0	1.27	3.00
30207 T/S	20	1/0.81	0.51	10.0	1.42	4.63
30208 T/S	18	1/1.02	0.82	15.0	1.68	7.40
30209 T/S	16	1/1.29	1 .30	22.0	2.06	11.70
30210 T/S	32	7/0.08	0.03	0.7	0.86	0.27
30211 T/S	30	7/0.10	0.06	1.0	0.91	0.54
30212 T/S	28	7/0.13	0.09	2.1	0.99	0.81
30213 T/S	26	7/0.16	0.14	3.0	1.09	1.26
30214 T/S	24	7/0.20	0.22	4.0	1.22	2.10
30215 T/S	22	7/0.25	0.35	7.3	1.37	3.20
30216 T/S	20	7/0.32	0.56	11.0	1.58	5.20
30217 T/S	18	7/0.40	0.88	16.0	1.88	8.00
30218 T/S	16	7/0.50	1.37	22.0	2.20	12.35
30219 T/S	28	19/0.08	0.09	2.3	0.87	0.81
30220 T/S	26	19/0.10	0.15	3.0	1.09	1.35
30221 T/S	24	19/0.13	0.24	4.0	1.22	2.20
30222 T/S	22	19/0.16	0.38	7.3	1.37	3.50
30223 T/S	20	19/0.20	0.60	11.0	1.58	5.60
30224 T/S	18	19/0.25	0.96	16.0	1.88	8.70
30225 T/S	16	19/0.29	1.25	22.0	2.21	12.00
30226 T/S	15	19/0.32	1.50	26.0	2.28	13.50
30227 T/S	14	19/0.36	1.93	32.0	2.59	18.00
30228 T/S	13	19/0.40	2.38	35.0	2.74	22.50
30229 T/S	12	19/0.45	3.02	41.0	3.07	28.00
30230 T/S	11	19/0.50	3.73	45.0	3.30	35.00
30231 T/S	10	19/0.65	6.30	55.0	4.03	56.70
30232 T/S	09	19/0.81	9.80	70.0	5.05	88.20
30233 T/S	08	19/0.91	12.35	100.0	5.55	111.15
30234 T/S	12	37/0.32	2.97	41.0	3.02	27.00
30235 T/S	10	37/0.40	4.64	50.0	3.58	43.00

Type EE (1000 V AC rms working) RJ 0509

Part number	Conductor size AWG	No. & dia. of strand in mm	Cross-section mm^2	Current Amp. Nominal at Ambient 30^0C	Outer diameter in mm	Copper index kg/km
RJ 0509						
30301 T/S	32	1/0.20	0.03	0.7	1.07	0.27
30302 T/S	30	1/0.25	0.05	1.0	1.12	0.45
30303 T/S	28	1/0.32	0.08	2.1	1.19	0.72
30304 T/S	26	1/0.40	0.13	3.0	1.27	1.26
30305 T/S	24	1/0.50	0.20	4.0	1.37	1.80
30306 T/S	22	1/0.64	0.32	7.0	1.52	3.00
30307 T/S	20	1/0.81	0.51	10.0	1.68	4.63
30308 T/S	18	1/1.02	0.82	15.0	1.93	7.40
30309 T/S	16	1/1.29	1.30	22.0	2.26	11.70
30310 T/S	30	7/0.10	0.06	1.0	1.17	0.54
30311 T/S	28	7/0.13	0.09	2.1	1.25	0.81
30312 T/S	26	7/0.16	0.14	3.0	1.35	1.26
30313 T/S	24	7/0.20	0.22	4.0	1.47	2.10
30314 T/S	22	7/0.25	0.34	7.3	1.63	3.20
30315 T/S	20	7/0.32	0.56	11.0	1.83	5.20
30316 T/S	18	7/0.40	0.88	16.0	2.13	8.00
30317 T/S	16	7/0.50	1.37	22.0	2.41	12.35
30318 T/S	28	19/0.08	0.09	2.1	1.24	0.81
30319 T/S	26	19/0.10	0.15	3.0	1.35	1.35
30320 T/S	24	19/0.13	0.24	4.5	1.47	2.20
30321 T/S	22	19/0.16	0.38	7.3	1.63	3.50
30322 T/S	20	19/0.20	0.60	11.0	1.83	5.60
30323 T/S	18	19/0.25	0.96	16.0	2.13	8.70
30324 T/S	16	19/0.29	1.25	22.0	2.41	12.00
30325 T/S	15	19/0.32	1.50	26.0	2.49	13.50
30326 T/S	14	19/0.36	1.93	32.0	2.90	18.00
30327 T/S	13	19/0.40	2.38	35.0	3.02	22.50
30328 T/S	12	19/0.45	3.02	41.0	3.38	28.00
30329 T/S	11	19/0.50	3.73	45.0	3.58	35.00
30330 T/S	10	19/0.65	6.30	55.0	4.34	56.70
30331 T/S	09	19/0.81	9.80	70.0	5.20	88.20
30332 T/S	08	19/0.91	12.35	100.0	5.56	111.15
30333 T/S	20	37/0.13	0.47	10.0	1.82	4.23
30334 T/S	18	37/0.16	0.74	15.0	2.13	6.70
30335 T/S	16	37/0.20	1.20	20.0	2.41	11.00
30336 T/S	14	37/0.25	1.90	32.0	2.75	17.10
30337 T/S	13	37/0.29	2.40	35.0	3.03	21.60
30338 T/S	12	37/0.32	2.97	41.0	3.33	27.00
30339 T/S	11	37/0.36	3.80	45.0	3.58	34.20
30340 T/S	10	37/0.40	4.64	50.0	3.89	43.00
30341 T/S	12	60/0.25	3.00	41.0	3.37	27.00
30342 T/S	11	60/0.29	3.96	45.0	3.70	35.10
30343 T/S	10	60/0.32	4.80	50.0	3.95	43.20
30344 T/S	09	60/0.36	6.10	55.0	4.40	54.98
30345 T/S	08	60/0.40	7.70	60.0	4.80	69.30
30346 T/S	06	60/0.51	12.30	100.0	5.80	110.26
30347 T/S	08	133/0.29	8.60	75.0	5.56	79.00
30348 T/S	06	133/0.36	13.59	100.0	6.93	122.00

FEP EQUIPMENT WIRES & CABLE

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

FEP CABLE, MULTI CORE

Type ET (250 V AC rms working)	**-65°C to 205°C**	**RJ 0510**
Type E (600 V AC rms working)	**-65°C to 205°C**	**RJ 0511**
Type EE (1000 V AC rms working)	**-65°C to 205°C**	**RJ 0512**

Product Description:

A wide variety of multicore cables for use in instrumentation of power projects, chemical & fertilizers, steel plants & various other type of Engineering industries.

Application:

- Particular attention should be drawn to the excellent resistance to corrosive synthetic hydraulic liquids ,as used,
- The wires made of FEP insulation are light weight compact, have excellence thermal stability.
- Electrical devices&Appliances and machinery.
- **Approvals:**

Product Features:

- Total Flame- Resistance
- Extremely Flexible; high tensile strength
- Resistant to acids, alkalis, solvent, Synthetic, liquids and oil.
- High resistance to radiation during and after radiation, in airand also in vacuum

Colour Codes:

- Colour: Coloured (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Orange)

Make Up:

- Fine strands of Bare Copper/ SPC wires/ TPC
- FEP insulation
- PTFE Isolator
- Silver Plated Copper / Tinned Plated Copper wire braid as per requirment
- FEP Outer Jacket

Technical Data:

- **Based on**
  US military MIL-C-27500-G
  Indian Defence JSS 51038.02
  Indian Defence JSS 51034: 1992 for inner cores
- **Insulation resistance**
  2G ohm x Km
- **Radiation resistance**
  3×10^7 CJ/Kg
- **Spark Test on core**
  ET- 250 V ACrms Grade 2.4 KV
  E - 600 V ACrms Grade 3.4 KV
  EE- 1000 V ACrms Grade 5.0KV
- **Test voltage on cable**
  ET- 250 V ACrms Grade 1.5 KV core to core/1KV core to shield
  E - 600 V ACrms Grade 2.0 KV core to core/1KV core to shield
  EE- 1000 V ACrms Grade 3.0KV core to core/1KV core to shield
- **Insulation radial thickness (Core)**
  ET- 250 V ACrms Grade 0.15 mm. nominal
  E - 600 V ACrms Grade 0.25 mm. nominal
  EE- 1000 V ACrms Grade 0.40 mm. nominal
- **Minimum bending radius**
  10 x cable diameter
- **Dielectric constant**
  2.1 in range from 0 Hz to 10^9 Hz(100 °C to 200 °C)
- **Temperature range**
  -100 °C to 205 °C for TPC/SPC

Note: 1. Economical version with Bare Copper Wire can be also be supplied, but recommended temperature range is 150 °C.
2. For Tinned/Silver Plating suffix S/N may be added to show the plating on basic conductor & shield.

Type ET (250 V AC rms working) RJ 0510

Part number	Number of cores	Cross section mm²	No. & dia. of strand in mm	Overall dia. in mm approx.		Copper index kg/km	
				Unshielded in mm	Shielded in mm	Unshielded	Shielded
RJ 0510							
30401 T/S	2	0.14	7/0.16	2.30	3.00	2.52	8.02
30402 T/S	3	0.14	7/0.16	2.40	3.10	3.78	9.78
30403 T/S	4	0.14	7/0.16	2.60	3.30	5.04	11.64
30404 T/S	6	0.14	7/0.16	3.25	4.10	7.56	14.56
30405 T/S	8	0.14	7/0.16	3.50	4.40	10.08	19.32
30406 T/S	10	0.14	7/0.16	4.20	5.00	12.60	23.00
30407 T/S	12	0.14	7/0.16	4.40	5.20	15.12	25.48
30408 T/S	2	0.22	7/0.20	2.50	3.20	4.20	12.80
30409 T/S	3	0.22	7/0.20	2.70	3.40	6.30	15.62
30410 T/S	4	0.22	7/0.20	2.90	3.60	8.40	18.81
30411 T/S	6	0.22	7/0.20	3.70	4.50	12.60	25.60
30412 T/S	8	0.22	7/0.20	4.00	4.80	16.80	31.60
30413 T/S	10	0.22	7/0.20	4.70	5.50	21.00	37.60
30414 T/S	12	0.22	7/0.20	4.90	5.80	25.20	41.80
30415 T/S	2	0.50	7/0.30	3.30	4.00	9.00	19.60
30416 T/S	3	0.50	7/0.30	3.40	4.20	13.50	25.00
30417 T/S	4	0.50	7/0.30	3.80	4.50	18.00	31.00
30418 T/S	6	0.50	7/0.30	4.80	5.50	27.00	43.23
30419 T/S	8	0.50	7/0.30	5.20	6.00	36.00	55.00
30420 T/S	10	0.50	7/0.30	6.20	6.80	45.00	66.00
30421 T/S	12	0.50	7/0.30	6.30	7.00	54.00	75.00
30422 T/S	14	0.50	7/0.30	6.80	7.80	63.00	86.35

Type E (600 V AC rms working) RJ 0511

Part number	Number of cores	Cross section mm²	No. & dia. of strand in mm	Overall dia. in mm approx.		Copper index kg/km	
				Unshielded in mm	Shielded in mm	Unshielded	Shielded
RJ 0511							
30501 S/N	2	0.75	19/0.23	4.1	4.9	14.20	27.53
30502 S/N	3	0.75	19/0.23	4.4	5.1	21.30	35.72
30503 S/N	4	0.75	19/0.23	4.8	5.6	28.40	44.65
30504 S/N	6	0.75	19/0.23	6.0	6.7	42.60	66.60
30505 S/N	8	0.75	19/0.23	6.6	7.5	56.80	84.52
30506 S/N	10	0.75	19/0.23	7.9	8.7	71.00	102.10
30507 S/N	12	0.75	19/0.23	8.2	9.1	85.20	116.30
30508 S/N	20	0.75	19/0.23	10.2	11.0	142.00	183.80
30509 S/N	2	1.00	19/0.25	4.4	5.0	17.40	31.40
30510 S/N	3	1.00	19/0.25	4.6	5.3	26.10	41.30
30511 S/N	4	1.00	19/0.25	5.0	5.8	34.80	52.20
30512 S/N	6	1.00	19/0.25	6.4	6.9	52.00	77.20
30513 S/N	8	1.00	19/0.25	6.9	7.8	69.60	98.60
30514 S/N	10	1.00	19/0.25	8.4	9.1	87.00	119.76
30515 S/N	12	1.00	19/0.25	8.6	9.4	104.40	137.16
30516 S/N	20	1.00	19/0.25	10.7	11.5	174.00	218.10
30517 S/N	2	1.50	19/0.32	5.2	6.0	27.00	43.60
30518 S/N	3	1.50	19/0.32	5.6	6.3	40.50	58.55
30519 S/N	4	1.50	19/0.32	6.1	6.9	54.00	78.00
30520 S/N	6	1.50	19/0.32	7.7	8.5	81.00	111.24
30521 S/N	8	1.50	19/0.32	8.5	9.3	108.00	142.56
30522 S/N	10	1.50	19/0.32	10.1	11.0	135.00	174.50
30523 S/N	12	1.50	19/0.32	10.4	11.3	162.00	201.50
30524 S/N	20	1.50	19/0.32	13.1	14.0	270.00	323.34

Note: For shielded cables, put shielded(SH), with the given part number, like 30401S for 2 core 0.14sqmm FEP insulated cores and FEP jacketed silver plated and 30401S/SH for 2 core 0.14sqmm FEP cores and overall Silver plated copper braid shielded, and FEP Jacketed.

Type EE (1000 V AC rms working) RJ 0512

Part number	Number of cores	Cross section mm^2	No. & dia. of strand in mm	Overall dia. in mm approx.		Copper index kg/km	
				Unshielded in mm	Shielded in mm	Unshielded	Shielded
RJ 0512							
30601 S/N	2	2.50	19/0.40	6.80	7.40	45.00	69.00
30602 S/N	4	2.50	19/0.40	8.00	860	90.00	119.82
30603 S/N	6	2.50	19/0.40	9.70	10.40	135.00	172.80
30604 S/N	8	2.50	19/0.40	11.00	11.70	180.00	223.68
30605 S/N	10	2.50	19/0.40	12.90	13.60	225.00	274.56
30606 S/N	12	2.50	19/0.40	13.40	14.10	270.00	319.56
30607 S/N	14	2.50	19/0.40	14.20	15.10	315.00	370.50
30608 S/N	20	2.50	19/0.40	17.00	18.00	450.00	517.20
30609 S/N	2	4.00	19/0.51	8.30	9.00	70.00	98.56
30610 S/N	3	4.00	19/0.51	8.80	9.50	105.00	136.10
30611 S/N	4	4.00	19/0.51	9.80	10.40	140.00	175.28
30612 S/N	6	4.00	19/0.51	11.90	12.60	210.00	255.36
30613 S/N	8	4.00	19/0.51	13.20	14.00	280.00	332.50
30614 S/N	10	4.00	19/0.51	15.60	16.50	350.00	409.64
30615 S/N	12	4.00	19/0.51	16.20	16.80	420.00	479.64
30616 S/N	20	4.00	19/0.51	20.40	21.00	700.00	781.10

Note: For shielded cables, put shielded(SH), with the given part number, like 30401S for 2 core 0.14sqmm FEP insulated cores and FEP jacketed silver plated and 30401S/SH for 2 core 0.14sqmm FEP cores and overall Silver plated copper braid shielded, and FEP Jacketed.