



EMPOWERING PROCESS MANAGEMENT



RTD Extension Wire Rx TT



RTD Cables are used as an extension wire to transmit Signal from RTD Sensor to Control Unit. They are available in 2,3,4,6,8,9 cores as per the requirement of RTD SENSOR design for Simplex & Duplex Construction.

ELTEC PTFE Insulated RTD Extension wires conforms to US Military MIL – W – 16878 and Indian defense specifications JSS 51034. As per these standards, these wires are classified in three main working voltage grades.

HV TEST

GRADE	SPARK TESTING	DIE ELECTRIC TESTING
ET (250 V)	2500 V AC	1500 V AC
E (600 V)	3400 V AC	2000 V AC
EE (1000 V)	5000 V AC	3000 V AC

APPLICATIONS

- RTD Sensors & Extension Wires
- RTD Autoclave
- Medical Instruments & Scientific Equipments
- Sensors, Load Cells & Pressure Transducers
- Electronics & Communication Equipment
- Process Instrumentation
- Packaging

PRODUCT FEATURES

- Continuous use up to 260 °C
- Single exposure up to 400 °C
- Inert to most chemical & fluids
- Unaffected by lubricants
- Flame Retardant
- Immune to agene fungus & water absorption
- Resistant to gamma radiation

PRODUCT SPECIFICATIONS:

Conductor	Silver Plated Copper wires / Nickel Plated Copper wires sizes from 28 AWG to 20 AWG as per MIL – W - 16878 & JSS 51043, Refer Table for most popular & standard wire sizes.
Core Insulation	PTFE Tape Wrapped & Sintered
No. of Cores	2, 3, 4, 6, 8 or even more
Construction	Cores twisted
Outer Sheath	PTFE Tape Wrapped & Sintered
Color Coding	Confirms to EN 60751

- Other sizes in SWG and also different construction in other stranded sizes are available on request
- Optional Nickel Plated Copper Conductors.

FEW POPULAR RTD CABLE WIRE SIZES as per MIL – W – 16878

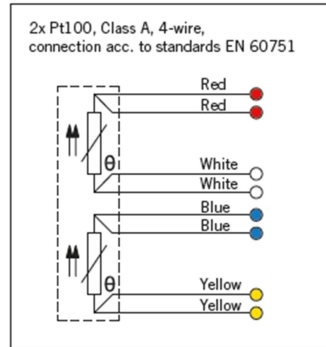
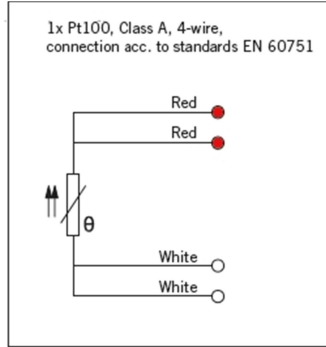
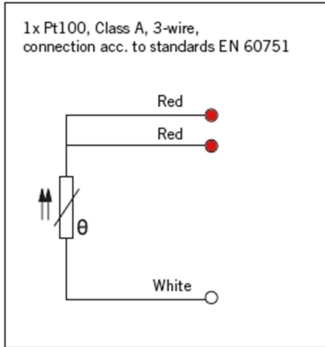
Sr. No.	Size in AWG	No. of strands/dia. of each strand (mm)	Parameters of conductor (Nominal) (As per JSS 51034)				Nominal Dia. of Insulated Wire		
			Dia. (mm)	Cross section (sq. mm)	Resistance Ohm/km at 20° C	Elongation % (Min)	ET (250 V) AC	E (600 V) AC	EE (1000 V) AC
1.	26/7/34	7/0.16	0.48	0.1409	133.7	9.0	0.79	0.99	1.24
2.	24/7/32	7/0.2	0.60	0.2270	83.2	9.0	0.91	1.12	1.37
3.	24/19/36	19/0.13	0.63	0.2407	80.2	9.0	0.91	1.12	1.37
4.	22/7/30	7/0.25	0.75	0.3547	52.5	13.5	1.07	1.27	1.52
5.	22/19/34	19/0.16	0.80	0.3820	49.8	9.0	1.07	1.27	1.52
6.	20/7/28	7/0.32	0.97	0.5630	33.0	13.5	1.27	1.47	1.73
7.	20/19/32	19/0.2	1.00	0.6162	30.3	9.0	1.27	1.47	1.73



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RTD COLOR CODE as per EN 60751



RTD WIRE ORDERING CODE

Rx	RTD Wire
	# 1 Wire Size in AWG
26	7 * 34 - 7 strands of 26 AWG
24	7 * 32 - 7 strands of 32 AWG
24	19 * 36 - 19 strands of 36 AWG
22	7 * 30 - 7 strands of 30 AWG
22	19 * 34 - 19 strands of 34 AWG
20	7 * 28 - 7 strands of 28 AWG
20	19 * 32 - 19 strands of 32 AWG
X	Others specify
	# 2 Conductor
SPC	Silver Plated Copper Wire (Standard)
NPC	Nickel Plated Copper Wire
TPC	Tin Plated Copper Wire
	# 3 No. of Cores
2C	Two Core Simplex
3C	Three Core Simplex
4C	Four Core Simplex
6C	Six Core Duplex
8C	Eight Core Duplex
	#4 Insulation
P	PVC Extruded
T	PTFE Fused (Standard)
F	Fiber Glass Braid (Standard)
SR	Silicone Rubber
C	Ceramic Fiber Braid
EP	FEP Extruded PTFE
PF	PFA Extruded PTFE
	# 5 Outer Jacket
P	PVC Extruded
T	PTFE Fused (Standard)
F	Fiber Glass Braid
C	Ceramic Fiber Braid (Standard)
SR	Silicone Rubber
EP	FEP Extruded PTFE
PF	PFA Extruded PTFE
	# 6 Shielding
0	No Shield
S	SS Metal Over Braid
SI	Silver Plated Over Braid
Sh	Aluminum Mylar with Drain Wire

Rx 24 AWG SPC 2C T T 0



ELTEC CABLES & INSTRUMENTS

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