

2023

# Electric Vehicle Charging



## PLUGS & CABLES



**RAYCOR E**

An ISO 9001:2015 CERTIFIED CO.

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**Raycor Electromech, is a unit of Roorkee based RJ Group it consist of two units as below –**

## 1. RJ Industrial Corporation

Established in 1988, at Roorkee, District- Haridwar [Uttarakhand], 175 KM North of capital New Delhi.

Manufacturers of all types of specialty wires & cables which includes LFH, PTFE, FEP, XLPE, ETFE, PE, PE FOAM, PP, HDPE, ZHFR, Silicon & Elastomeric Rubber insulated wires & cables, control & Instrumentation Cables.

It has customers like DRDO, Defence establishments, Bharat Electronics, BHEL, HAL, ECIL, Bharat Dynamics etc. and a number of other private & public sector units.

The Main application includes, Military Radars, Missiles, Battle Tanks, Electronics Control, Aircraft, and Naval Ships etc. Now making EV Cable, as per IEC 62893 Part 1, 2, & 3, for further details visit us at [www.rjptfe.com](http://www.rjptfe.com).



## 2. Raycor Electromech

Manufacturers of specialized geometrical stranded conductors of Silver, Tin & Nickel plated. Also have complete in-house setup to manufacture Cable Assemblies, Wire Harness and RO Filters.

Now, it has entered into the manufacturing of electrical components i.e. EV connectors, for electric vehicles.

Both units have approximately 50,000 sq ft. of working area and presently have staff of 100 persons, including technical & administrative.



## Core Team

- |  |  |
|--|--|
| <b>Mr. Pyush Jindal</b><br>[CMD RJ Group]    | : 67, BE [Electrical Engineering], IIT, Roorkee,<br>FIE, Institution of Engineers & Certified Chartered Engineer,<br>[Having 45 yrs. of work experience, in various industrial activities, including R&D, Production, Design and administrative] |
| <b>Dr. Kamlesh Chandra</b><br>[Ex Professor] | : Ph. D [Materials] , Ex Professor [IIT Roorkee],<br>FIE has six patents to his credit; worked with number of industries, for various projects, including Break Material Development of TVS, Scooters.   |
| <b>Mr. Awadhesh Yadav</b><br>[DGM]           | : B. Tech [E & TC], PGDIM in Rubber Technology from IIT Kharagpur. Having 27 years of experience, of Research & Development and Quality Control in various type of wires & cables industries.  |
| <b>Mr. P K Bansal</b><br>[QA Consultant]     | : Ex. Chief Eng.(QA - NPCIL),<br>Ministry of Atomic Energy, Govt. of India. Having long experience of Quality Control & Quality Assurance at various levels.   |

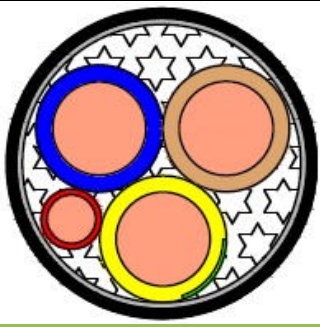
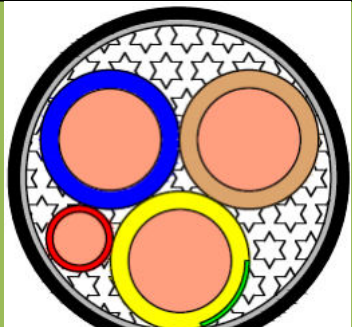
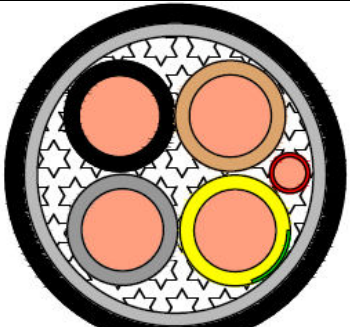
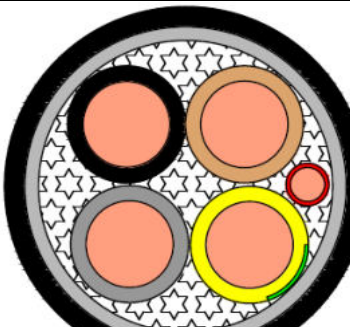
## Technical Specifications [Plug]

Description	RC1P230 16	RC1P230 32	RC3P415 16	RC3P415 32
PLUG	Type 2, Plug Single Phase, 3.7 KW 16 Ampere	Type 2, Plug Single Phase, 7.3 KW 32 Ampere	Type 2, Plug, Three Phase, 11 KW 16 Ampere	Type 2, Plug, Three Phase, 22 KW 32 Ampere
Source of Power	Grid, 230 V AC, rms	Grid, 230 V AC, rms	Grid, 415 V AC, rms	Grid, 415 V AC, rms
Type 2 Female Vehicle End	16 A	32 A	16 A	32 A
Insulation Resistance	<b>&gt;1000 Mega Ohm</b>			
Mating Cycle	<b>&gt;10,000</b>			
Contact Resistance	<b>≤ 0.5 Mili Ohm</b>			
Operating Temperature	<b>-30° C to +70° C</b>			
Extraction Force	Insertion Force < 100 N		Extraction Force > 100 N	
Protection class	<b>IP55 [Mated]</b>			
Make	<b>Raycor Electromech</b>			
Contact Pin	<b>Copper Alloy; Silver Plated</b>			
Shell Material	<b>Thermoplastic, Inflammable, Impact Resistant</b>			
Flame Retardant Grade	<b>UL94 - v- 0</b>			
Standards	<b>IEC 62196-2 [For Plug Tape-2]</b>			
Approvals	<b>CE, ROHS, REACH</b>			



## Technical Specifications Cable

TYPE	RC1P230 16	RC1P230 32	RC3P415 16	RC3P415 32
Cable Rating	Single Phase, 16A, 230V AC RMS	Single Phase, 32A, 230V AC RMS	Three Phase, 16A 415V AC RMS	Three Phase, 32A 415V AC RMS
Electrical Cable	3 Cores, 2.5 Sq mm +1 Cores, 0.75 Sq mm	3 Cores, 6.0 Sq mm +1 Cores, 0.75 Sq mm	4 Core, 2.5 Sq mm +1 Core, 0.75 Sq mm	4 Core, 6.0 Sq mm +1 Core, 0.75 Sq mm
Cable Standard	IEC 62893 Parts 1, 2, 3 Rating 0.6/1kv			
Operating Temperature Flame Retardant Grade AC Power Line, Neutral Earth Control Pilot (CP) Proximity Pilot (PP)	-30°C to +70°C			
Assembly of cores	As Shown Below			
Outer Sheathing	FR Polyurethane [FR TPU]			
Colour Code	As Shown Below			
Make	<b>RJ Industrial Corporation</b>			
Approvals	ISI, CE, LCSO, DGQA, DGQAN, RoHS, REACH, RDSO, URS, HAVELLS			
Other Approvals*	ISO9001:2015, NSIC, Capacity Assessment By DGQA, DDGQAN, LCSO & Other Customer Approvals			
Customers of RJ Cables	BEL, BHEL, NPCIL, Amphenol, HAL, DMRC, BDL, ECIL, TATA, L&T, OFB etc.			

			
<p>4 Core Charging Cable 230V, 16A, 3 Core x 2.50 Sqmm (Power Cores) + 1 Core x 0.75 Sqmm (Control Cores)</p>	<p>4 Core Charging Cable 230V, 32A, 3 Core x 6.00 Sqmm (Power Cores) + 1 Core x 0.75 Sqmm (Control Cores)</p>	<p>5 Core Charging Cable 415V, 16A, 4 Core x 2.50 Sqmm (Power Cores) + 1 Core x 0.75 Sqmm (Control Cores)</p>	<p>5 Core Charging Cable 415V, 32A, 4 Core x 6.00 Sqmm (Power Cores) + 1 Core x 0.75 Sqmm (Control Cores)</p>
<p><b>Power Cores</b> Yellow-Green, Blue, Brown <b>Control Core - Red</b></p>	<p><b>Power Cores</b> Yellow-Green, Blue, Brown <b>Control Core - Red</b></p>	<p><b>Power Cores</b> Yellow-Green, Brown, Black, Grey <b>Control Core - Red</b></p>	<p><b>Power Cores</b> Yellow-Green, Brown, Black, Grey <b>Control Core - Red</b></p>

\*Type tested, against IEC62893, Part 1, 2 & 3, duly witnessed by TUV SUD.

For further details -

Raycor Electromech

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