



GREEN INITIATIVE BY WILLCO INDUSTRIES



IS : 694

CML-8700097918



About

Since Walts & Volt's inception, our company has strived to provide highest quality products and best service to customers with the principle of reliability and sincerity. Further, we are also involved in the research and development and utilising latest technology for multiple products.

Total Quality Management

We use a combination of effective quality management and efficient manufacturing process in order to assure optimum quality.

All of our manufacturing process and products follow the standard principles to Total Quality Management (TQM). With extensive training and field experience, all our employees are equipped with the skills and tools to achieve excellent results with every project.

Owing to our extensive production capability and latest machinery, we are able to provide our clients with a bespoke service. Thus, not only can we satisfy the needs of our customers, but also our products conform to international standards of quality

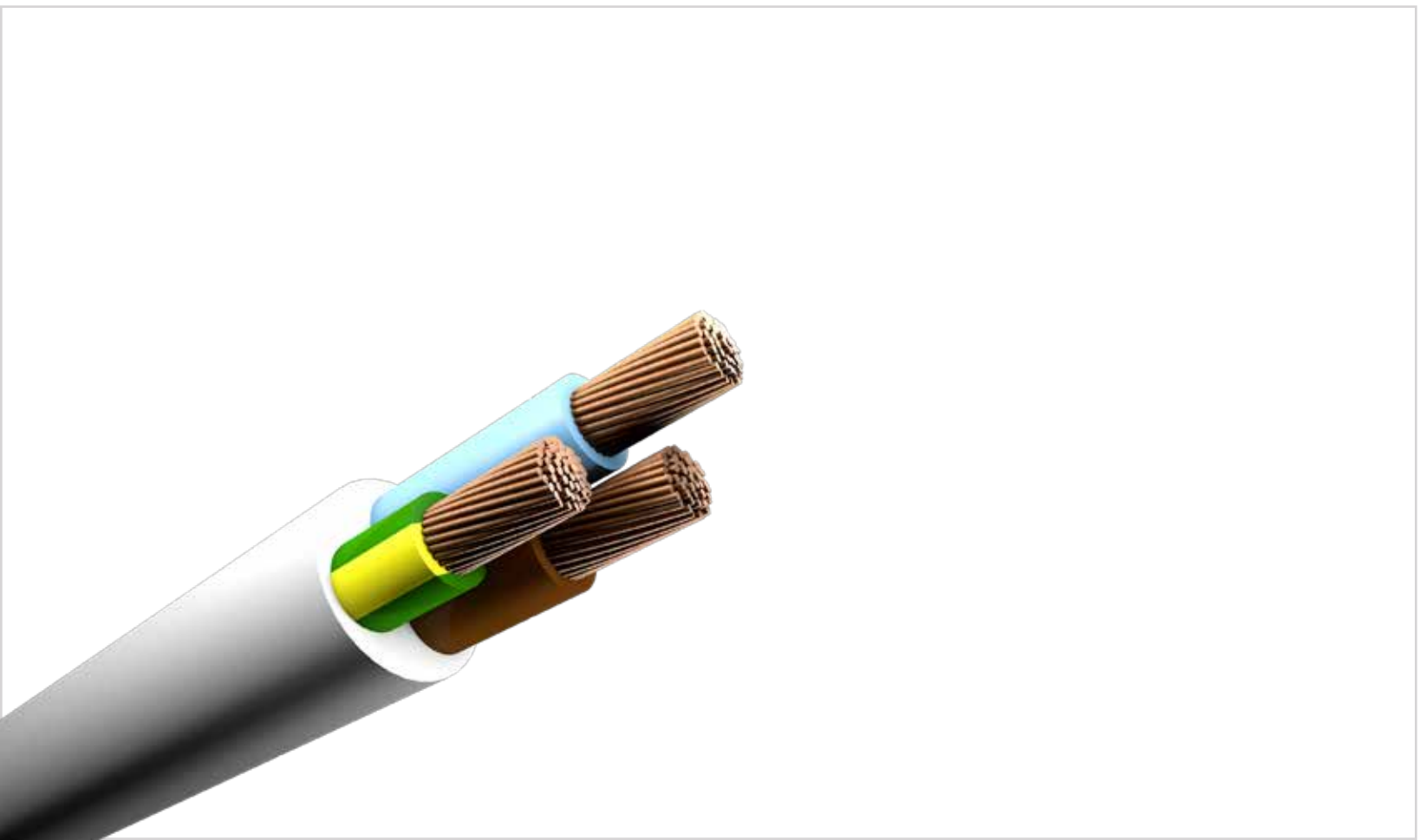
Why WATTS & VOLT?

A number of factors have led to our emergence as one of the key players in the market. We are engaged in the manufacturing of world class wires and cables that are designed to meet the needs of various sectors. Some of the reasons that set us apart in this ever changing market are:

- We provide end to end solutions
- Strong research and development capabilities
- Transparent dealings
- Best in class manufacturing facilities



WATTS & VOLT
—○—⊗—stay wired—⊗—





MANUFACTURED BY:

WILLCO INDUSTRIES

MANUFACTURING & REGISTERED OFFICE:
 B92, SECTOR 60, NOIDA-201301,
 UTTAR PRADESH, INDIA

RETAIL & CUSTOMER UNIT:
 B14, SECTOR 67, NOIDA-201301,
 UTTAR PRADESH, INDIA

PHONE: +91-1204543531 MOBILE: 9810023671/9810023641/9810093641

EMAIL: infor@willco.in WEBSITE: www.willco.in





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WIRES

CONDUCTOR

Our conductors are extracted from bright electrolytic grade copper, hardened and bunched together.

INSULATION

Our bunched conductors are insulated with specially formulated HR (heat resistant), FR (flame retardant) and FR-LSH (flame retardant- low smoke and low halogen) PVC compound which procure the value of high insulaon resistance. Our insulation process is administered on modern high speed extrusion lines which ensure magnificent authenticity and uniformity in performance. These properties present in our wires and cables enable them to combat surpluses.

QUALITY CONTROL

Much safer than bare conductors as insulated conductors prevent accidental contact and supply can be maintained temporarily even if a suspension system collapses. High quality standards are in-built with every WATTS & VOLT product through rigid tests and checks at each stage, from the procuring of raw materials to the dispatch of the final product. The checking measurements of WATTS & VOLT are in compliance to the national and international standards and consumer approval.

WATTS & VOLT FLEXIBLE PVC INSULATED SINGLE CORE UNSHEATHED INDUSTRIAL MULTISTRAND CABLES - W(HR) W(FR) AND W(FR-LSH) WITH BRIGHT ANNEALED ELECTROLYTIC BARE COPPER CONDUCTOR FOR VOLTAGE GRADE UPTO 1100 V CONFORMING TO IS- 694:2010.

TECHNICAL DATA

Nominal Cross Sectional Area of The Conductor	NOS/ Nominal Dia of Strand	Nominal Thicknes of Insulation	Approx overall Dia	Max Conductor Resistance	Current Rating (AMPS) 2 Wires, Single Phase #	
SQ. MM	No. / MM	MM	MM	Ω / KM At 20°C	Inconduit / Trunking	Clipped Directly to Surface or on Cable Tray
0.75	**10/0.3	0.6	2.4	26.0	7	8
1.0	*14/.3	0.7	2.8	18.0	11	12
1.5	*22/.3	0.7	3.1	12.1	13	16
2.5	*36/.3	0.8	3.8	7.41	18	22
4.0	**56/.3	0.8	4.3	4.95	24	29
6.0	**84/.3	0.8	5.2	3.30	31	37

- Available in standard colors: Red, Yellow, Blue, Black, Green
- FR /FRLSH & HR wire packaging: 90 meters, 180 meters and 270 meters pack in protective packaging
- Marking: The cables are marked with authentic coding of W (HR), W (FR) and W (FR-LSH)
- Confirms to (IS:694 CM/L-8700097918)

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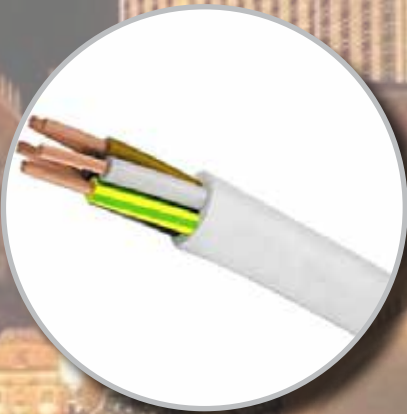
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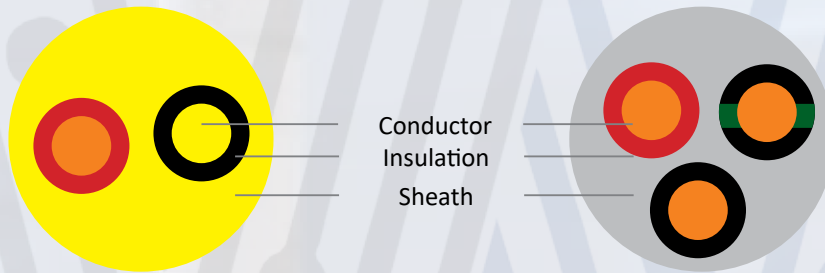


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WATTS & VOLT MULTI CORE FLEXIBLE CABLES

WATTS & VOLT FLEXIBLE PVC INSULATED MULTICORE FR PVC SHEATHED MULTISTRANDED CABLES WITH BRIGHT ANNEALED ELECTROLYTIC BARE COPPER CONDUCTOR FOR VOLTAGE GRADE UPTO 1100 V CONFORMING TO IS- 694:2010



MULTICORE ROUND INSULATED COPPER CONDUCTOR AND SHEATHED FLEXIBLE CABLES FOR WORKING VOLTAGE UPTO 1100 VOLTS

Nominal cross area of conductor	number nom. dia of conds. Strands	Thickness of Insulation (NOM)	Nominal Thickness of Sheath			Aprox overall diameter			Current rating AC	Voltage Drop/AMP/Metre			Max. Conductor Resistance per KM at 20°C
			Two core	Three Core	Four Core	Two Core	Three Core	Four Core		DC or Single Phase AC	3 Phase AC	3 Phase AC	
SQ.MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	AMPS	MV	OHMS	
0.75	10/0.3	0.6	0.9	0.9	0.9	6.5	6.9	7.6	8	56	56	26.0	
1.0	14/0.3	0.6	0.9	0.9	0.9	6.9	7.3	8.2	13	43	43	19.6	
1.5	22/0.3	0.6	0.9	0.9	1.0	7.6	8.2	9.3	18	31	31	13.3	
2.5	36/0.3	0.7	1.0	1.0	1.0	9.0	9.6	10.5	24	18	18	7.96	
4.0	56/0.3	08	1.0	1.0	1.0	10.3	10.9	12.3	31	11	11	4.95	

- Available in all standard colors
- Packaging: 100 meters roll pack in protective packaging and 500 meter drum
- Marking: The cables are marked with authentic coding of WATTS & VOLT
- Confirms to (IS:694:2010 CM/L-8700097918)

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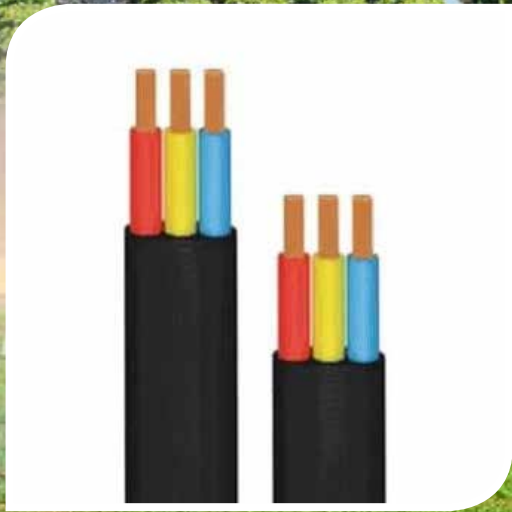
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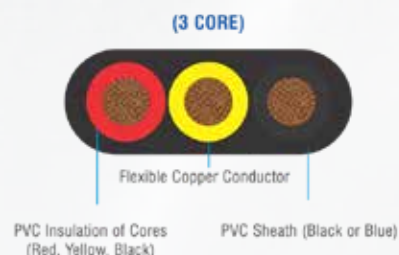


WATTS & VOLT THREE CORE FLAT CABLE

The three core flat cables of WATTS & VOLT is a quality trusted product among conscious electrical contractors, also recommended by builders, architects and consultants for domestic, industrial and agricultural wiring. As measures to practice trouble free working the three core flat cables is used for submersible pump motors, manufactured keeping in mind the severe and difficult conditions they are required to perform in. WATTS & VOLT anneals and bunches the wires to ensure flexibility and uniform resistance. The individual conductors are produced from bright electrolytic grade copper. Each of the three conductors is insulated with special PVC compound, laying put the cores in flat parallel position. The outer sheath of the cables are made out of a special grade of abrasion resistance PVC compound, self-reliant to oil, water, grease etc.

FEATURES

- Available colors: Red, Yellow, Blue, Black, Green
- Packaging: 100 meter roll, pack in protective packaging and 500 meter drum.
- Marking: The cables are marked with brand and ISI mark with specification.
- Confirms to (IS:694 CM/L-8700097918)



3 CORE FLAT CABLES GENERALLY CONFORMING TO IS:694:1990 WITH ISI MARK

CONDUCTOR		INSULATION		SHEATH Overall Dimensions			CONDUCTOR RESISTANCE@20C (MAX.) OHMS / K.M.	CURRENT CARRYING CAPACITY @40°C (AMP.)
Area (NOM.) SQ. MM.	No./Size of Wires MM	Thickness (NOM) MM.	Core DIA. (NOM) MM.	Thickness (NOM) MM.	Width 'W' MM	Thickness 'T' MM.		
1.5	22/0.3	0.8	3.25	1.15	12.5	5.8	12.10	14
2.5	36/0.3	0.9	3.90	1.15	14.4	6.3	7.41	18
4.0	56/0.3	1.0	4.65	1.15	17.2	7.4	4.95	26

3 CORE FLAT CABLES GENERALLY CONFORMING TO IS:694:1990

CONDUCTOR		INSULATION		SHEATH Overall Dimensions			CONDUCTOR RESISTANCE@20C (MAX.) OHMS / K.M.	CURRENT CARRYING CAPACITY @40°C (AMP.)
Area (NOM.) SQ. MM.	No./Size of Wires MM	Thickness (NOM) MM.	Core DIA. (NOM) MM.	Thickness (NOM) MM.	Width 'W' MM	Thickness 'T' MM.		
6.0	84/0.3	1.0	5.20	1.15	18.7	7.9	3.30	31
10.0	140/0.3	1.0	6.60	1.40	23.7	9.9	1.91	42
16.0	226/0.3	1.0	8.20	1.40	28.0	11.4	1.21	57

SELECTION GUIDE FOR 3 CORE FLAT CABLES

HP VS CURRENT

THE FULL LOAD CURRENT FOR SUBMERSIBLE PUMP MOTORS, 3 PHASE, 50 CYCLES, 415-425 V.

HP	5.0	7.5	10.0	12.5	15.0	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
AMP	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.80	108.0

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