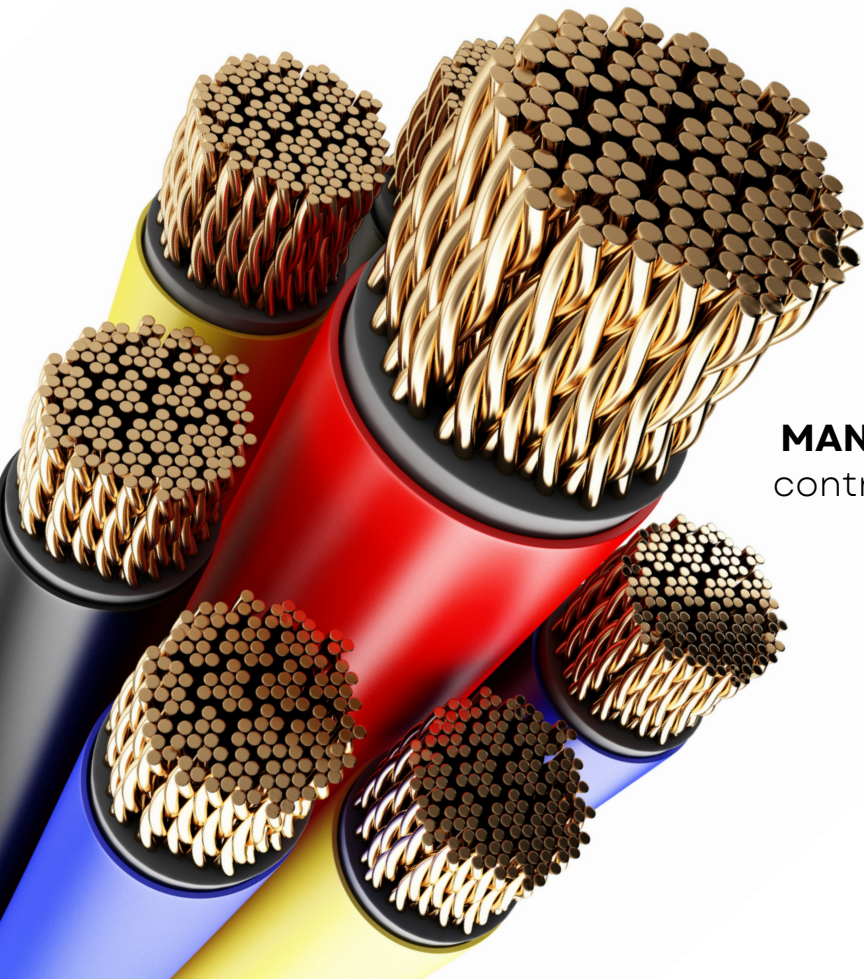




WILLCATM

WIRES & CABLES



MANUFACTURED BY WILLCO INDUSTRIES
control panel, wire and cable manufacturer



IS:694



CM/L-8700097918

WILCO INDUSTRIES

We would like to introduce ourselves as well established and reputed control panel, wires and cable manufacturers for more than two decades in the field of construction and power industries.



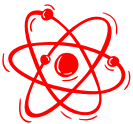
**TOP NOTCH
MANUFACTURING**



**TRANSPARENT
DEALINGS**



**END-TO-END
SOLUTIONS**



**EXPERT
R&D**

WILCO Industries thrives on its motto- “prudent velocity and eccentricity“ to achieve it's goal of providing its customers with **safe, trustworthy, durable and quality products.**





GREEN INITIATIVE BY WILLCO



WILLCO Industries adheres to the mandate of **Restriction of Hazardous Substances (RoHS)** by restricting the use of six hazardous materials used in production of electrical and electronic products. By coming to the norms of RoHS Willco Industries takes a green stand by eliminating the use of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) in any of our products.



Along with this, Willco Industries has also pledged to reinstate an eco-friendly environment while producing our trusted wired and cables, complying to **100% Eco Friendly** production norms.

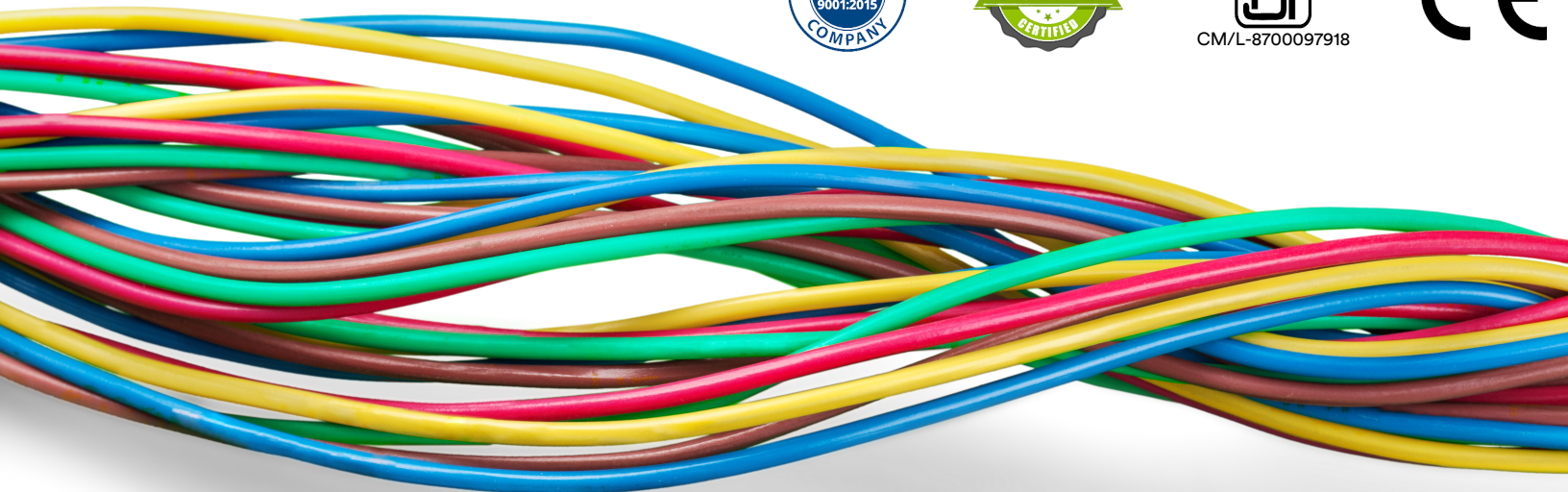



WILLCA™

WIRES & CABLES

WILLCA, a brand of WILLCO Industries has been founded on the foundational ground of quality, infrastructure and punctuality. WILLCA functions with the motive of building a balance among the facilitators and consumers of cables and wires across all household and retail products. This motivation is envisioned through a detailed research of the growing demands of the current market. In accordance to the rules of achieving secure production and environment protection WILLCA ensures that **all our products meet the global standards which guaranteed maximum consumer satisfaction.**

WILLCA is a leading producer of a wide range of wires and cables with credible certifications by BIS (Bureau of Indian Standards) and major European standards which provide to the requirements of retail and household products. WILLCA has greatly invested in research and development to boost their infrastructural capabilities to produce strong and durable wires and cables.





WILLCA™

safe,
longlasting
wires

WIRES & CABLES

Over the decades we have served **over 200 clients** carving out a niche for ourselves and gaining an unmarked stature in the field of electrical products and services with a few of our eminent clients being **Reliance Energy Ltd., NDPL (a joint venture between Tata Power and Delhi Govt.), Central Govt. EWHO, BSES Limited, Sony (I) Ltd., Gurgaon Habitat C.G.H.S, and many housing societies all over India.**

With being fully equipped with the total team of professionals consisting of electrical engineers & electrical design engineers we also provide a range of services which include installation of electrical works & manufacturing of L T Panels, H T Panels, motor control centers, bus-ducts, feeder pillars, DB's, cable tray, etc. Vinal Power is also a successor in obtaining the quality Award winner. The award was conducted by Business Sphere Magazine of India.

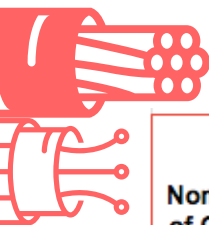
WILLCA WIRES LIGHTING THE WORLD



PVC INSULATED SINGLE CORE UNSHEATHED INDUSTRIAL MULTI STRAND CABLES

WILLCA PVC insulated single core unsheathed industrial multistrand cables - **WILLCA FR & WILLCA ULTRA SERIES** with bright annealed electrolytic bare copper conductor for voltage grade upto 1100 v confirming to **IS-694:2010**

Our conductors are extracted from bright electrolytic grade copper, hardened and bunched together. they are insulated with specially formulated **FR** (flame retardant), **ZHFR** (zero halogen flame retardant) and **FR-LS** (flame retardant-low smoke).



WILLCA 1100 VOLTS SINGLE CORE FR/ZHFR/FR-LS AND ULTRA SERIES MULTI STRAND COPPER CONDUCTOR CABLES

Nominal Area of Conductor	Nominal Thickness of Conductor	Nominal Overall Diameter	Max. Conductor Resistance at 20 degree celcius	Current Carrying Capacity 2 Cables, Single Phase ac	
				Enclosed in Conduit/Trunking	Unenclosed clipped to a surface or cable tray
SQMM.	MM.	MM.	Ohms/Km	Amps	Amps
1.0	0.7	2.8	18.1	11	12
1.5	0.7	3.1	12.1	13	16
2.5	0.8	3.8	7.41	18	22
4.0	0.8	4.6	4.95	24	29
6.0	0.8	5.3	3.3	31	37

NOTE: Sizes 1.0 and 2.5 sq.mm. are with conductor CLASS-II as per IS 8130
 Sizes 4.0 and 6.0 sq.mm. are with conductor Class-V as per IS 8130

Conductor Nominal Area	Number & Nominal Dia. of Wire	Resistance (max) at 20 degree celcius	Approx. Overall Diameter	Nominal Thickness of Insulation	Current Carrying Capacity 2 Cables, Single Phase		Approx. Gross Weight
					In Conduit/Trunking	Unenclosed-clipped directly to a surface or cable tray	
SQMM.	MM.	Ohms/Km	MM.	MM.	Amps	Amps	KG
0.75	10/0.3	26.00	2.3	0.6	6	7	1.00
1.0	14/0.3	18.10	2.7	0.7	11	12	1.35
1.5	22/0.3	12.10	3.0	0.7	13	16	1.85
2.5	36/0.3	7.98	3.6	0.8	18	22	2.75
4.0	56/0.3	4.95	4.0	0.8	24	29	3.99
6.0	84/0.3	3.30	4.6	0.8	31	37	5.45

TECHNICAL DETAILS

WILLCA ULTRA SERIES

Conductor Nominal Area	Number & Nominal Dia. of Wire	Resistance (max) at 20 degree celcius	Approx. Overall Diameter	Nominal Thickness of Insulation	Current Carrying Capacity 2 Cables, Single Phase		Approx. Gross Weight
					In Conduit/Trunking	Unenclosed-clipped directly to a surface or cable tray	
SQMM.	MM.	Ohms/Km	MM.	MM.	Amps	Amps	KG
0.75	15/0.25	26.00	2.3	0.6	6	7	1.00
1.0	20/0.25	18.10	2.7	0.7	11	12	1.35
1.5	30/0.25	12.10	3.0	0.7	13	16	1.85
2.5	50/0.25	7.98	3.6	0.8	18	22	2.75
4.0	56/0.3	4.95	4.0	0.8	24	29	3.99
6.0	84/0.3	3.30	4.6	0.8	31	37	5.45

Available in Standard Colors:

Red, green, blue, yellow & black

WILLCA FR & WILLCA ULTRA SERIES protective packaging:

90, 180 & 270 meter coils

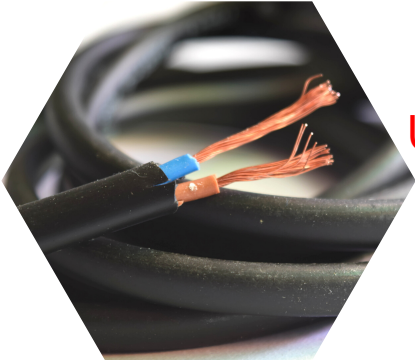
Marking:

WILLCA wires are marked with authentic coding of WILLCA FR and WILLCA ULTRA Series

CONFIRMING TO IS:694 CM/L-8700097918

WILLCATM
WIRES & CABLES





WILLCA Flexible PVC Insulated Multi Core Unsheathed Industrial Multi Strand Cables

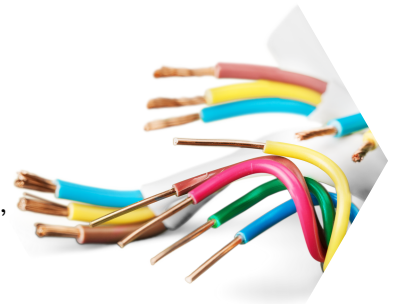
WILLCA Flexible PVC Insulated Multi Core Unsheathed Industrial Multi Strand Cables with bright annealed electrolytic bare copper conductor for voltage grade upto 1100V confirming to IS-694 :2010

TECHNICAL DETAILS

Cond. Area Sq. Mm.	Max. Conductor Radiance at 20° C Ohms/Km	Nominal Thickness of Insulation Mm.	Appx. Dia over Insulation Mm.	Nom. Sheath Thickness			Appx. Overall Diameter			Current Rating Amps.
				2 core Mm.	3 core Mm.	4 core Mm.	2 core Mm.	3 core Mm.	4 core Mm.	
0.5	39	0.6	2.2	0.9	0.9	0.9	6.2	6.6	7.2	4
0.75	26	0.6	2.5	0.9	0.9	0.9	6.8	7.2	7.8	7
1	18.1	0.6	2.6	1.2	1.2	1.2	7.5	8	8.7	11
1.5	12.1	0.7	3	1.2	1.2	1.3	8.6	8.9	10	14
2.5	7.41	0.8	3.7	1.3	1.3	1.3	10	10.6	11.6	19
4	4.95	0.8	4.3	1	1	1	11	11.5	13	26

WILLCA Three Core Flat Cables

WILLCA Three Core Flat Cables have each of their conductors insulated with special PVC compound, laying the cores in flat parallel position. The outer sheath of the cables are made out of special grade of abrasion resistance PVC compound, self-reliant to oil, water, grease, etc.



TECHNICAL DETAILS

CONDUCTOR		INSULATION		SHEATH Overall Dimensions			CONDUCTOR RESISTANCE @20C (MAX.) OHMS/K.M.	CURRENT CARRYING CAPACITY AT 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	12.1	14
2.5	36/0.3	0.9	3.9	1.15	14.4	6.3	7.41	18
4	56/0.3	1	4.65	1.15	17.2	7.4	4.95	26



All WILLCA wires & cables are manufactured keeping in mind the severe and difficult conditions they are required to perform in.

WILLCA™

WIRES & CABLES




MANUFACTURED BY: WILLCO INDUSTRIES

CONTROL PANEL, WIRE AND CABLE MANUFACTURER

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Thank You

We are looking forward
to working with you

