

NEOCAB®

Wires & Cables



INDUSTRIAL CABLE

SINGLE CORE / MULTICORE FLEXIBLE CABLES

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NEOCAB INDUSTRIAL FLEXIBLE CABLE as per IS:694, 2010

NEOCAB INDUSTRIAL FLEXIBLE CABLES are with developed as per IS:694,2010. These cables are perfect to be used in low-voltage Electric wiring of commercial and industrial applications. These cables designed to cope with the tight bending radii and physical stress associated with moving applications.

The conductors used in these cables are finely drawn from 99.97% bright electrolytic grade copper with more than 101% conductivity, annealed and bunched together. These conductors are insulated with a PVC compound with high insulation resistance and dielectric strength, with choice of FR or FRLS-H, Heat Resistant (HR) PVC also available on demand.

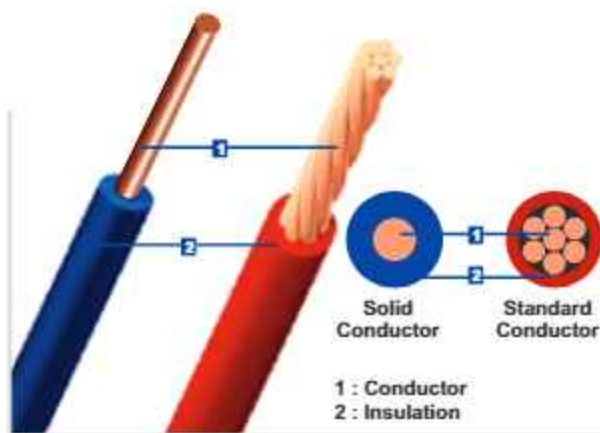
In case of multicore cables, the insulated cores are laid up to form the core assembly. The inner cores are color coded or numbered for ease of identification as per National/ International coding practices. The sheathing is provided with a specially formulated PVC compound to facilitate not only ease in stripping but also to withstand mechanical abrasion while in use.

SALIENT FEATURES

- Long and Rugged life with oil as well as abrasion resistance and Moisture Resistance
outer Layer to protect cable from harsh environment. Outer most layer come with UV-Protected.
- Superior Extra Flexible bunched Conductor makes These Cables easy to install and give long service life.
- Superior conductivity helps in reducing Energy bills.
- Higher bending radius

These Flexible Cables are made using Superior quality FR/FRLS-H PVC insulation and FR or FRLS-H Sheath. PVC used in these cables has high oxygen and temperature index, thus helping in restricting spread of fire even at high temperatures.

NEOCAB Industrial Cables can be further divided into two broad categories based on the type conductor used in construction of Cable:



NEOCAB Unsheathed Single Core Cable with Solid Conductor

- Rigid Conductor Cables: Uses Solid or Stranded Conductor for construction of cable. These conductors are Rigid and strong, and have lesser flexibility.
- Flexible Conductor Cables or Flexible Cables: Conductors in these cables are made-up of several finely drawn soft copper wires bunched together to form cross-sectional Area of desired size. These cables can be further divided into single core or multicore, depending upon number of cores stranded together.

NEOCAB Unsheathed Single Core Cable with Flexible Conductor




SINGLE CORE FLEXIBLE INDUSTRIAL CABLES GENERALLY CONFORMING TO IS 694 : 2010 - VOLTAGE GRADE UPTO 1100 VOLTS

AREA sq. mm.			70.0	95.0	120.0	150.0	185.0	240.0
CONDUCTOR	NO. & SIZE OF WIRE	No./mm	360/.5	475/.5	608/.5	750/.5	925/.5	1221/.5
	MAX RES. @20°C	Ohms/km	0.272	0.206	0.161	0.129	0.106	0.0801
	CURRENT DC/AC	Amps	214	260	305	355	415	500
INSULATION	THICKNESS (Nom.)	mm	1.4	1.6	1.6	1.8	2.0	2.2
	O.D. (Approx.)	mm	13.9	15.9	17.8	19.8	22.0	26.0



SINGLE CORE / MULTICORE FLEXIBLE INDUSTRIAL CABLES AS PER IS 694 : 2010 - VOLTAGE GRADE UPTO 1100 VOLTS

		AREA Sq.mm.	0.5	0.75	1.0	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0
NO. & SIZE OF WIRE (Nom.)	No./mm		16/2	24/2	32/2	30/25 OR 48/2	50/25 OR 80/2	56/3	84/0.3	80/3 OR 140/3	126/4 OR 226/3	196/4 OR 354/3	276/4 OR 495/3	396/4 OR 703/3
	CONDUCTOR RESISTANCE (MAX.) @ 20°C	Ohms/km	39.0	26.0	19.5	13.3	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386
CURRENT RATING DC or AC	Amps		4	7	12	15	20	27	35	46	62	80	102	138
INSULATION THICKNESS (Nom.)	mm		0.6	0.6	0.6	0.6	0.7	0.8	0.8	1.0	1.0	1.2	1.2	1.4
SINGLE CORE UNSHEATHED OVERALL DIAMETER (Approx.)	mm		2.00	2.30	2.45	2.75	3.50	4.10	4.75	6.00	7.10	8.80	10.10	12.00
SINGLE CORE SHEATHED SHEATH THICKNESS (Nom.)	mm		0.9	0.9	0.9	0.9	1.0	1.0	<p>IS:694-2010</p>  <p>CM/L-7300104594</p>					
SINGLE CORE SHEATHED OVERALL DIAMETER (Approx.)	mm		4.00	4.25	4.50	4.80	5.45	6.30						
TWIN FLAT SHEATHED OVERALL WIDTH (Approx.)	mm		6.2	6.7	-	-	-	-						
TWIN FLAT SHEATHED OVERALL HEIGHT (Approx.)	mm		4.0	4.25	-	-	-	-						
2 CORE SHEATH THICKNESS (Nom.)	mm		0.9	0.9	0.9	0.9	1.0	1.0						
2 CORE OVERALL DIAMETER (Approx.)	mm		6.1	6.7	7.0	7.6	9.1	10.5						
3 CORE SHEATH THICKNESS (Nom.)	mm		0.9	0.9	0.9	0.9	1.0	1.0						
3 CORE OVERALL DIAMETER (Approx.)	mm		6.4	7.1	7.4	8.0	9.6	11.4						
4 CORE SHEATH THICKNESS (Nom.)	mm		0.9	0.9	0.9	1.0	1.0	1.0						
4 CORE OVERALL DIAMETER (Approx.)	mm		6.9	7.7	8.1	9.2	10.7	12.4						
5 CORE SHEATH THICKNESS (Nom.)	mm		0.9	0.9	1.0	1.0	1.0	1.1						
5 CORE OVERALL DIAMETER (Approx.)	mm		7.5	8.3	9.1	9.9	11.7	13.8						

Note : The conductor construction given above is indicative only and will be such that all requirements of strand diameter and conductor resistance as per IS 694 and IS 8130 are met.

NEOCAB INDUSTRIAL ROUND FLEXIBLE CABLE





FLEXIBLE MULTICORE INDUSTRIAL CABLES (6 CORES TO 19 CORES) GENERALLY CONFORMING TO IS 694 : 2010, VOLTAGE GRADE UPTO 1100 VOLTS

CORES	AREA sq.mm	0.5	0.75	1.0	1.5	2.5	4.0
6	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	0.9 8.1	1.0 9.4	1.0 9.8	1.0 10.7	1.1 12.9	1.2 16.0
7	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	0.9 8.1	1.0 9.4	1.0 9.8	1.0 10.7	1.1 12.9	1.2 16.0
8	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	1.0 9.4	1.0 10.4	1.0 10.9	1.1 12.2	1.2 14.6	1.3 17.0
10	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	1.0 10.5	1.1 11.9	1.1 12.5	1.1 13.7	1.3 16.7	1.4 19.5
12	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	1.0 10.8	1.1 12.3	1.1 12.9	1.1 14.1	1.3 17.3	1.4 20.5
14	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	1.1 11.5	1.1 12.8	1.1 13.5	1.2 15.0	1.3 18.1	1.4 22.5
16	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	1.1 12.1	1.2 13.7	1.2 14.4	1.2 15.8	1.4 19.3	1.5 24.0
19	SHEATH THICKNESS (Nom.) mm OVERALL DIAMETER (Approx.) mm	1.1 12.7	1.2 14.4	1.3 15.1	1.3 16.8	1.4 20.3	1.5 25.5

THREE & FOUR CORE FLEXIBLE INDUSTRIAL CABLES FOR VOLTAGE GRADE UPTO 1100 VOLTS

AREA sq. mm.		6.0	10.0	16.0	25.0	35.0	50.0	70.0	95.0	120.0	
	NO. & SIZE OF WIRE	No./mm	84/3	140/3 OR 80/4	226/3 OR 126/4	354/3 OR 196/4	495/3 OR 276/4	703/3 OR 396/4	360/5	475/5	608/5
CONDUCTOR	MAX. RES @20°C	Ohms/Km	3.30	1.91	1.21	0.78	0.554	0.386	0.272	0.206	0.161
	CURRENT	Amps	31	42	57	72	91	120	165	200	225
INSULATION	THICKNESS	mm	0.8	1.0	1.0	1.2	1.2	1.4	1.4	1.6	1.6
3-CORE	SHEATH THICKNESS (Nom.)	mm	1.3	1.4	1.4	1.5	1.6	2.0	2.2	2.4	2.5
	O.D. (Approx.)	mm	13.3	16.9	19.1	23.0	26.3	31.7	38.5	45.0	49.0
4-CORE	SHEATH THICKNESS (Nom.)	mm	1.4	1.4	1.4	1.6	1.7	2.0	2.2	2.4	2.5
	O.D. (Approx.)	mm	14.7	18.6	21.0	25.5	29.2	33.4	40.0	46.5	51.0

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