

BHARTIA

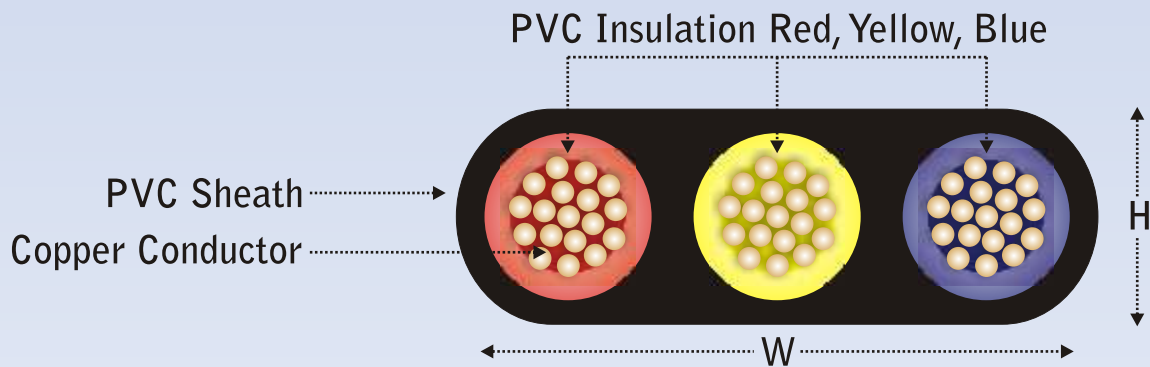
3 CORE FLAT CABLE
(for Submersible Pumps)



BHARTIA INDUSTRIES LIMITED
we care for you

BHARTIA 3 Core Flat Cable

BHARTIA 3 core flat cables have been designed and manufactured to take care of tough and severe conditions in which they are required to render long trouble free service. The slot available in the tubewell being narrow and the shape of the cables have to be supplied for such an application. The individual conductors are made from bright electrolytic copper, drawn, bright annealed and bunched geometrically to ensure flexibility and uniformity of insulation. These conductors (Red, Yellow & Blue) are insulated with specially formulated PVC suitable to operate from -40°C to $+70^{\circ}\text{C}$, laid parallel and sheathed with special grade of PVC. These cables are supplied with sequential meter marking along with other related details.



3 Core Flat Cables as per IS 694: 1990 with ISI mark

Conductor		Insulation Thickness (Nom)	Sheath Thickness (Nom)	Overall Dimension		Conductor Resistance @20° C (max) Ohms/km	Current Carrying Capacity @ 40° C Amps	Note: The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130 : 1984 * As per Conductor Class 2 of IS 8130 : 1984 ** As per Conductor Class 5 of IS 8130 : 1984
Area	No./Dia. of strands			Width (Approx) 'W'	Height (Approx) 'H'			
Sq. mm.	mm	mm	mm	mm				
1.5	19/.31*	0.6	0.9	10.6	4.95	12.10	14	
2.5	37/.284*	0.7	1.0	12.7	5.9	7.41	18	
4.0	61/.274**	0.8	1.0	14.9	6.6	4.95	26	

BHARTIA 3 Core Flat Cable generally conforming to IS 694 : 1990

Conductor		Insulation Thickness	Sheath Thickness	Overall Dimension		Conductor Resistance	Current Carrying Capacity	Note: The number of wires and strand diameter will be such as to satisfy the requirements of conductor resistance as per IS 8130 : 1984
Area	No./Dia. of strands			Width	Height			
Sq. mm.	mm	(Nom)	(Nom)	(Approx) 'W'	(Approx) 'H'	@20° C (max)	@ 40° C	
6.0	91/274	1.0	1.15	18.3	7.7	3.3	31	
10.0	91/36	1.0	1.4	23.2	9.7	1.91	42	
16.0	144/36	1.0	1.4	27.4	11.2	1.21	57	

Guidelines for selection of 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	15.5	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
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	100.8

Derating Factors : Multiply the current carrying capacity of the cable by factors give below for various ambient temperatures.

Ambient Temperature °C	30	35	40	45	50
Derating Factor	1.09	1.04	1.00	0.95	0.77



Price List Bhartia 3 Core Flat Cable (100Meters)

Size (sq. mm.)	Cat Ref.	Current Carrying Capacity at 40° C (Amp.)	Nominal Cross Section Area in Sq. mm.	100 Meter Unit Price (Rs.)	Std. Pkg. (No. of units)
1.5	CS0015A	14	1.50		1
2.5	CS0025A	18	2.50		1
4	CS0040A	26	4.00		1
6	CS0060A	31	6.00		1
10	CS0100A	42	10.00		1
16	CS0160A	57	16.00		1

Bhartia 3 Core Flat Cable (500Meters)

Size (sq. mm.)	Cat Ref.	Current Carrying Capacity at 40° C (Amp.)	Nominal Cross Section Area in Sq. mm.	500 Meter Unit Price (Rs.)	Std. Pkg. (No. of units)
1.5	CS0015B	14	1.50		1
2.5	CS0025B	18	2.50		1
4	CS0040B	26	4.00		1
6	CS0060B	31	6.00		1
10	CS0100B	42	10.00		1
16	CS0160B	57	16.00		1

- All Prices are inclusive of excise duty.
- Prices are subject to revision without prior notice.
- The orders will be accepted only in multiple quantities of standard packing.
- Also available in 1000 mtr. drum on request.

BHARTIA INDUSTRIES LIMITED

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Surat	98256-07604
Tirupathi	98661-30930
Trichy	98947-35185

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