SAMUDRA

SUBMERSIBLE CABLES

COMPANY PROFILE

Samudra Pumps is a recognized manufacturer of a wide range of premium **Borewell Submersible & Surface pumps, Solar Pumps Motors, Wastewater Pumps, Hydro-pneumatic systems, Pipes, Cables, Control Panels,** and other related accessories to cater to almost all sectors, including **Residential, Agriculture, Industrial, Urban & Commercial, Solar, Utility & Wastewater**.

Established in 2020, Samudra Pumps is the brainchild of Mr. Shivan Ramachandran, who serves as the founder and CEO. In his previous tenure, Mr. Shivan served as the Joint MD of Texmo Industries, one of India's leading pump behemoths. He was responsible for developing some of the most lauded products in the industry. Samudra's leadership team consists of highly skilled veterans with an average of 25+ years of industry-specific experience. Samudra considers its people its most valuable resource. Every member at Samudra is committed to constantly innovate and to provide value to its customers. The Samudra management believes in empowering its workforce and keeping them motivated.

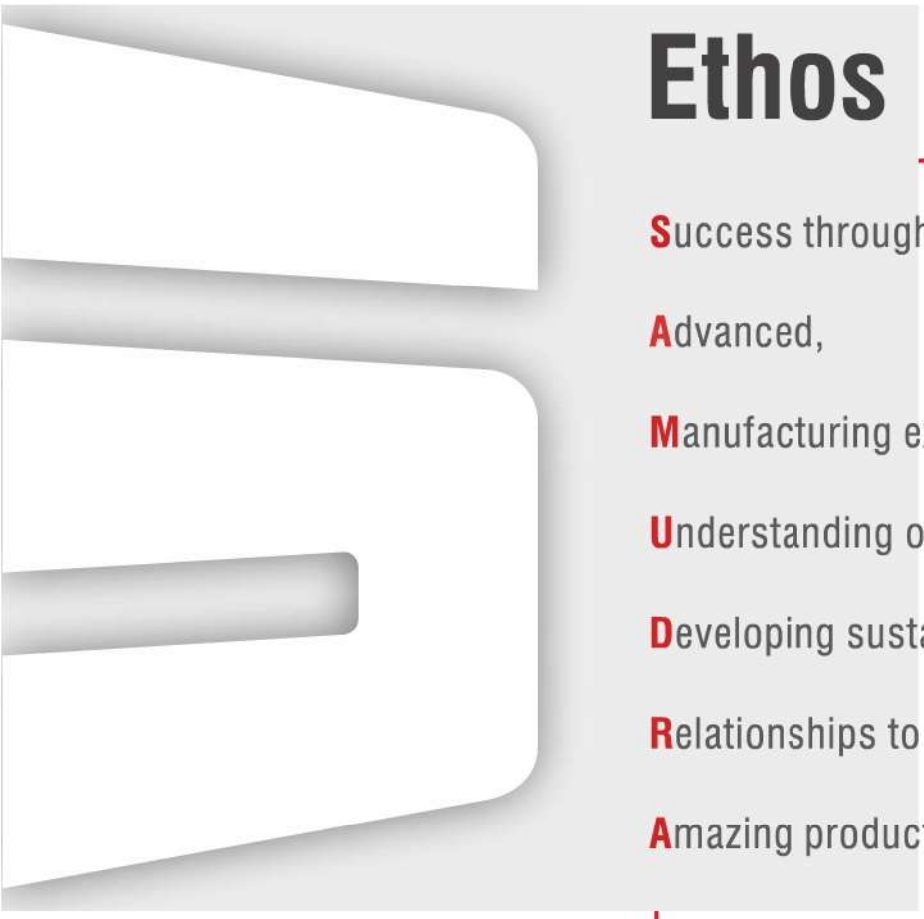
Samudra Pumps strongly believe in the importance of Research & Development. Having implemented some of the best and cutting-edge technologies in hydraulic design, RPT (Rapid Prototyping Technologies), including the use of 3D printing, lean manufacturing systems – pioneering the use of several Industry 4.0 tools, and creating strategic joint ventures with several global technology companies. R&D is truly the lifeline at Samudra.

We take pride in our state-of-the-art production facilities. Our manufacturing process is further strengthened with a broad spectrum of modern and sophisticated machinery for precision, utilizing some of the best-in-class technologies from around the world. Our dedicated team of highly trained and talented workforce and production engineers ensures consistency and reliability at every stage of the manufacturing process to create a product that meets the highest global standards.

We take our quality extremely serious. Our pumps are of the highest quality, extremely durable, and reliably backed by excellent service and a comprehensive warranty. Our product goes through multiple quality checks at every stage of the production process. A dedicated QC team works relentlessly to check durability, performance, precision, and dimensional accuracy to make a product worthy of international quality standards. As quality is the very foundation on which Samudra is built, we constantly strive to implement the highest standards and regulations that would shape our products and processes for the better. This is substantiated by Samudra having been awarded and recognized for several quality systems and product standards like **ISO, ISI, CE, BEE**, amongst many others.

We at Samudra believe in building long-lasting relationships with our vendors, dealers, and authorized service centres. We work closely with our partners and stakeholders to create a jointly successful future based on solid bonds and mutual trust. On a rapid growth path, Samudra in its 3-year journey, has established over 700 strong channel partners with over 15 branches, selling over 2000 different models across various product groups.

Our Ethos



Success through

Advanced,

Manufacturing excellence by

Understanding our customers &

Developing sustainable

Relationships to create

Amazing products and services!

Vision

To be a global engineering icon
by putting people first
& giving back to society.

Mission

Delivering exceptional products and services
by creating long term, sustainable partnerships
& generating stakeholder value

Quality Policy

Samudra Pumps is committed to provide world class Pumps and Motors solutions and services.

We deliver Customer Satisfaction through Total Employee Involvement and Continual Improvement and excel at achieving the highest Quality standards and Regulatory compliance.

GENERAL INFORMATION

SAMUDRA

Samudra's world class range of cables are manufactured as per Is694 standards. Our cables ensure a long life and insulated with a double layer protection and are weather resistant and resistant to oils, chemicals and solvents. Samudra cables are very durable and are cut, tear and flame resistant. the low conductor resistance offers better current flow and high insulation resistance provides greater safety.

Technical Specifications

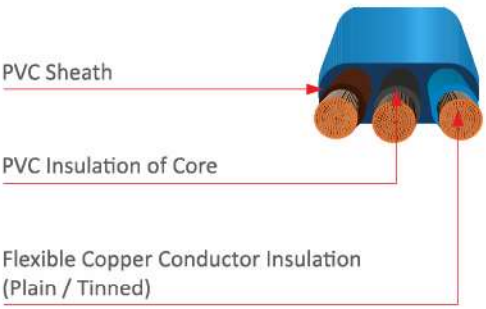
Sizes in sq.mm	Flat 1.0 to 150 sq.mm,
	Round 1.0 to 240 sq.mm 3 core and 4 core, 1100 V
Sizes in AWG	14 AWG to 250 mcm 3 core and 4 core, 600 V/ 1100 V
Temperature range	PVC -15°C to +70°C, Rubber -40°C to +90°C
Conductor	High conductivity annealed and bunched copper
Conductor material	Copper EC Grade
Insulation material	Flexible water proof PVC / EPDM / EPR
Sheath material	Flexible water proof PVC / Rubber (EPDM / NBR / PCP)
Sheath colour	Black / Blue / Green / Any other color as be specified
	by the customer

Features:

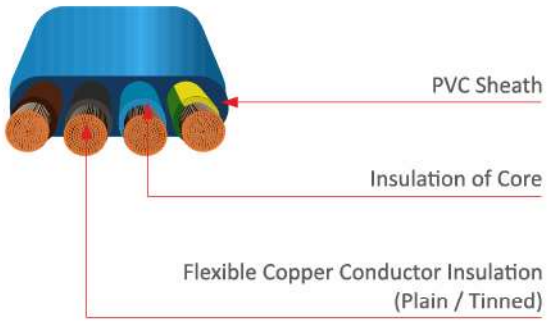
Corrosion Free | Inert to Chemicals | Very low friction losses | Cost Effective | Energy Saver | Long Life
Non Toxic | No Electrolytic Deposition | Light in weight | Easy Installation & handling

PVC 3 & 4 CORE SUBMERSIBLE FLAT CABLES

SAMUDRA



3 Core Submersible Flat Cable



4 Core Submersible Flat Cable

Construction

Conductor	Finely stranded bare flexible copper conductor
Insulation	PVC
sheath	PVC
Core Colours	3 core : Red, Yellow, Blue OR Brown, Blue, Black
	4 core: Red, Yellow, Blue, Green OR
	Brown, Blue, Black, Yellow with Green line OR Green with Yellow line

Flat Cable Details Required for 3 Core & 4 Core - PVC Cable

Nominal size in sq.mm	Conductor		PVC Insulation		3 Core PVC Sheath	4 Core PVC Sheath	3 Core PVC Sheath		4 Core PVC Sheath		Conductor Resistance at 20°C	Current Rating at 40° C
	Maximum Dia of the conductor	No of conductors (Approx.)	Nominal Thickness	Nominal Core diameter	Nominal Thickness	Nominal Thickness	Approx. Overall Diameter		Approx. Overall Dimeter		Ohm/km	Amps
							Height	Width	Height	Width	Bare Copper	PVC
1.5	0.310	22	0.80	3.25	1.15	1.30	6.20	12.80	6.20	15.80	12.10	14
2.5	0.310	36	0.90	3.80	1.15	1.30	6.40	14.60	6.40	18.00	7.41	18
4	0.310	56	1.00	4.50	1.15	1.45	7.40	16.80	7.40	21.00	4.95	26
6	0.310	84	1.00	5.25	1.15	1.50	8.00	18.70	8.00	24.50	3.30	31
10	0.310	140	1.00	6.50	1.40	1.80	9.90	23.70	9.90	29.70	1.91	42
16	0.310	224	1.00	8.00	1.40	1.95	11.80	28.00	11.80	36.00	1.21	57
25	0.310	350	1.20	10.10	2.00	2.00	14.70	35.50	14.70	45.10	0.780	72
35	0.310	490	1.20	11.30	2.00	2.00	16.80	39.50	16.80	50.10	0.554	90
50	0.310	703	1.40	13.30	2.20	2.20	18.30	45.50	18.30	58.10	0.386	115
70	0.310	988	1.40	15.30	2.20	2.20	21.00	51.00	20.00	66.50	0.272	143
95	0.310	1349	1.60	18.00	2.40	2.40	23.50	60.00	23.50	77.30	0.206	165
120	0.510	608	1.80	19.80	2.80	3.50	25.00	65.00	27.40	87.00	0.161	188
150	0.510	760	2.20	22.70	4.00	-	30.70	76.10	-	-	0.129	216

Special Features:

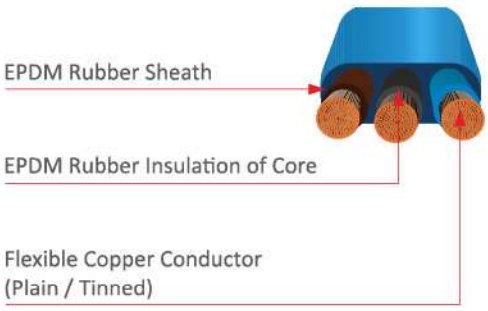
Excellent resistant to moisture, abrasion, grease, oil | Excellent mechanical & electrical properties | Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694 | Temperature range -15°C to +70°C

Applications:

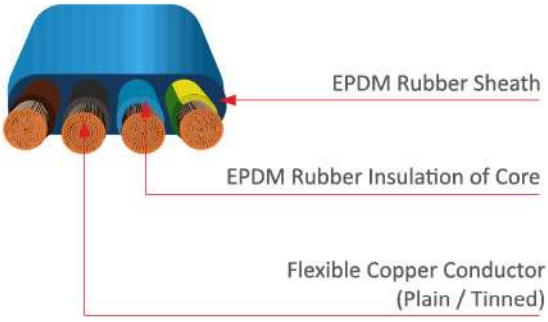
For continuous use in deep well to supply power to submersible motors for the depth upto 500 mtrs

PVC 3 & 4 CORE SUBMERSIBLE RUBBER CABLES

SAMUDRA



3 Core Submersible Flat Cable



4 Core Submersible Flat Cable

Construction

Conductor	Finely stranded bare flexible copper conductor
Insulation	EPR rubber
sheath	Black| Blue heavy duty EPR
Core Colours	3 core : Red, Yellow, Blue OR Brown, Blue, Black
	4 core: Red, Yellow, Blue, Green OR
	Brown, Blue, Black, Yellow with Green line OR Green with Yellow line

Flat Cable Details Required for 3 core & 4 Core Rubber Cable

Nominal size in sq.mm	Conductor		Rubber Insulation		3 Core Rubber Sheath	4 Core Rubber Sheath	3 Core Rubber Sheath		4 Core Rubber Sheath		Conductor Resistance at 20° C	Current Rating at 40° C
	Maximum Dia of the conductor	No of conductors (Approx.)	Nominal Thickness	Nominal Core diameter	Nominal Thickness	Nominal Thickness	Approx. Overall Diameter		Approx. Overall Diameter		Ohm/km	Amps
							Height	Width	Height	Width	Bare Copper	EPDM
1.5	0.310	22	0.80	3.25	1.15	1.30	6.20	12.80	6.20	15.80	12.10	23
2.5	0.310	36	0.90	3.80	1.15	1.30	6.40	14.60	6.40	18.00	7.41	30
4	0.310	56	1.00	4.50	1.15	1.45	7.40	16.80	7.40	21.00	4.95	34
6	0.310	84	1.00	5.25	1.15	1.50	8.00	18.70	8.00	24.50	3.30	43
10	0.310	140	1.00	6.50	1.40	1.80	9.90	23.70	9.90	29.70	1.91	61
16	0.310	224	1.00	8.00	1.40	1.95	11.80	28.00	11.80	36.00	1.21	81
25	0.310	350	1.20	10.10	2.00	2.00	14.70	35.50	14.70	45.10	0.780	108
35	0.310	490	1.20	11.30	2.00	2.00	16.80	39.50	16.80	50.10	0.554	135
50	0.310	703	1.40	13.30	2.20	2.20	18.30	45.50	18.30	58.10	0.386	170
70	0.310	988	1.40	15.30	2.20	2.20	20.00	51.00	20.00	66.50	0.272	220
95	0.310	1349	1.60	18.00	2.40	2.40	23.50	60.00	23.50	77.30	0.206	285
120	0.510	608	1.80	19.80	2.80	3.50	25.00	65.00	27.40	87.00	0.161	306
150	0.510	760	2.20	22.70	4.00	-	30.70	76.10	-	-	0.129	365

Special Features:

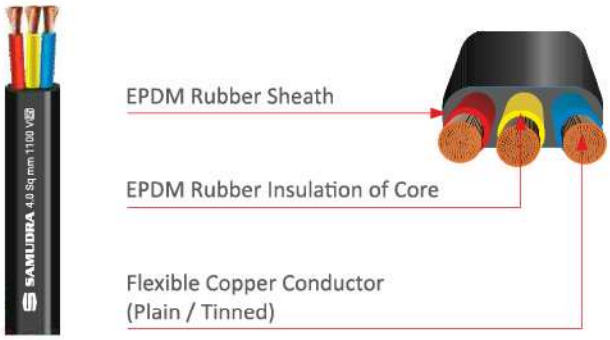
Meets the requirement of CENELEC HD 22.1.S2, DIN VDE 0282 PART 810, IEC 245, CEI 20-19 & BS6007, BS 6899 | Designed for heavy duty use |Excellent resistant to oils, acids, chemicals, ozone & solvents |Excellent Weather Resistant | Excellent Electrical Properties | Temperature range -40°C to +90°C

Applications:

For continuous use in deep well to supply power to submersible motors for the depth upto 500 mtrs

PVC 3 & 4 CORE SUBMERSIBLE FLAT CABLES - AWG

SAMUDRA



3 Core Submersible Flat Cable

4 Core Submersible Flat Cable

Construction

Conductor	Finely stranded bare flexible copper conductor
Insulation	PVC
sheath	PVC
Core Colours	3 core : Red, Yellow, Blue OR Brown, Blue, Black
	4 core: Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow with Green line ORGreen with Yellow line

AWG Flat Cable Details Required for 3 core - PVC & Rubber Cable | 4 Core PVC & Rubber Cable

AWG	Conductor		PVC Insulation		PVC & Rubber Sheath		3 core - PVC & Rubber Cable		4 core - PVC & Rubber Cable		Conductor Resistance at 20° C	Current Rating at 30° C	Current Rating at 40° C
	Nominal Dia of the conductor	No of conductors	Nominal Thickness	Nominal Core diameter	3 CORE	4 CORE	Approx. Overall		Approx. Overall		Ohm/km	Amps	Amps
					Nominal Thickness		Height	Width	Height	Width	Bare Copper	PVC	EPDM
14	0.310	36	0.90	3.80	1.15	1.30	6.40	14.60	6.40	18.00	7.41	18	30
12	0.310	56	1.00	4.50	1.15	1.45	7.40	16.80	7.40	21.00	4.95	26	34
10	0.310	84	1.00	5.25	1.15	1.50	8.00	18.70	8.00	24.50	3.30	31	43
8	0.310	140	1.00	6.50	1.40	1.80	9.90	23.70	9.90	29.70	1.91	42	61
6	0.310	224	1.00	8.00	1.40	1.95	11.80	28.00	11.80	36.00	1.21	57	81
4	0.310	350	1.20	10.10	2.00	2.00	14.70	35.50	14.70	45.10	0.780	72	108
2	0.310	490	1.20	11.30	2.00	2.00	16.80	39.50	16.80	50.10	0.554	90	135
1	0.310	703	1.40	13.30	2.20	2.20	18.30	45.50	18.30	58.10	0.386	115	170
1/0.	0.310	988	1.40	15.30	2.20	2.20	21.00	51.00	20.00	66.50	0.272	143	220
2/0.	0.310	1349	1.60	18.00	2.40	2.40	23.50	60.00	23.50	77.30	0.206	165	285
3/0.	0.510	608	1.80	19.80	2.80	3.50	25.00	65.00	27.40	87.00	0.161	188	306
4/0.	0.510	760	2.20	22.70	4.00	-	30.70	76.10	-	-	0.129	216	365

Special Features:

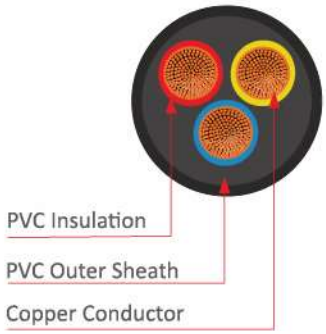
Cable is in accordance with UL specification for 75°C type TW cable | Generally conforming to : UL 83, IEC 60227, BS 6500, ISI 694 | Excellent resistant to moisture, abrasion, grease and oil | Excellent resistant to oils, acids, chemicals and ozone

Applications:

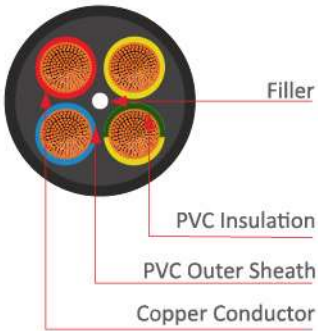
For continuous use in deep well to supply power to submersible motors for the depth upto 500 mtrs

PVC 3 & 4 CORE SUBMERSIBLE ROUND CABLES

SAMUDRA



3 Core Submersible Round Cable



4 Core Submersible Round Cable

Construction

Conductor	Finely stranded bare flexible copper conductor
Insulation	PVC
sheath	PVC
Core Colours	3 core : Red, Yellow, Blue OR Brown, Blue, Black
	4 core: Red, Yellow, Blue, Green OR
	Brown, Blue, Black, Yellow with Green line OR Green with Yellow line

Round Cable Details Required for 3 core - PVC Single Sheathed | 4 Core - PVC Single Sheathed

Nominal size in sq.mm	Conductor		PVC Insulation		PVC Single Sheath				Conductor Reistance at 20° C	Current Rating at 40° C
	Maximum Dia of the conductor	No of conductors (Approx.)	Nominal Thickness	Nominal Core diameter	Nominal Thickness		Approx. Overall Diameter		Ohm/km	Amps
					3 core	4 core	3 core	4 core	Bare Copper	PVC
1.5	0.310	22	0.80	3.25	1.50	1.50	10.00	10.80	12.10	14
2.5	0.310	36	0.90	3.80	1.50	1.65	11.00	12.50	7.41	18
4	0.310	56	1.00	4.50	1.60	1.65	13.00	14.10	4.95	26
6	0.310	84	1.00	5.25	1.60	1.65	14.60	16.00	3.30	31
10	0.310	140	1.00	6.50	2.00	2.00	18.00	20.35	1.91	42
16	0.310	224	1.00	8.00	2.00	2.00	21.20	23.40	1.21	57
25	0.310	350	1.20	10.10	2.40	2.40	26.50	29.20	0.780	72
35	0.310	490	1.20	11.30	2.60	2.60	29.50	32.40	0.554	90
50	0.310	703	1.40	13.30	3.10	3.10	34.80	38.25	0.386	115
70	0.310	988	1.40	15.30	3.20	3.20	39.30	43.30	0.272	143
95	0.310	1349	1.60	18.00	3.50	3.50	45.70	50.40	0.206	165
120	0.510	608	1.90	19.80	3.80	3.80	50.20	55.30	0.161	188
150	0.510	760	2.00	22.00	4.00	4.00	55.30	61.00	0.129	216

Special Features:

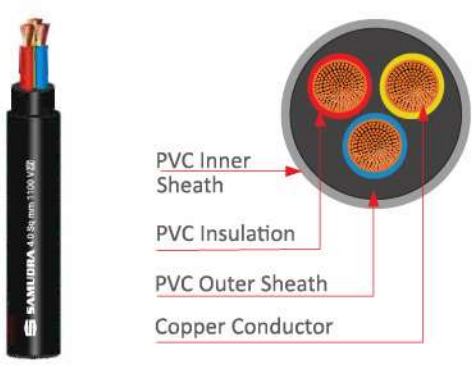
Excellent resistant to moisture, abrasion, greace, oil | Excellent mechanical & electrical properties | Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694 | Temperature range -15°C to +70°C

Applications:

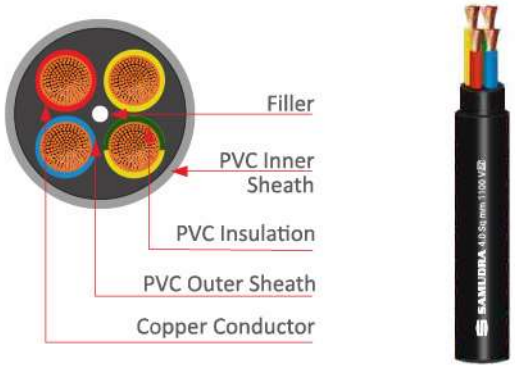
For continuous use in deep well to supply power to submersible motors for the depth upto 500 mtrs

PVC 3 & 4 CORE DOUBLE SHEATHED SUBMERSIBLE ROUND CABLES

SAMUDRA



3 Core Submersible Round Cable



4 Core Submersible Round Cable

Construction

Conductor	Finely stranded bare flexible copper conductor
Insulation	PVC
sheath	PVC (sheath 1 & 2)
Core Colours	3 core : Red, Yellow, Blue OR Brown, Blue, Black
	4 core: Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow
	with Green line OR Green with Yellow line

Round Cable Details Required for 3 core - PVC Double Sheathed [up to 95 sq.mm]
4 Core - PVC Double Sheathed [up to 95 sq.mm]

Nominal size in sq.mm	Conductor		PVC Insulation		PVC Double Sheath				Conductor Reistance at 20° C	Current Rating at 40° C
	Maximum Dia of the conductor	No of conductors (Approx.)	Nominal Thickness	Nominal Core diameter	Nominal Thickness		Approx. Overall Diameter		Ohm/km	Amps
					3 core	4 core	3 core	4 core	Bare Copper	PVC
1.5	0.310	22	0.60	3.00	1.65	1.80	10.00	10.80	12.10	14
2.5	0.310	36	0.70	3.60	1.65	1.85	11.00	12.50	7.41	18
4	0.310	56	0.80	4.30	1.65	1.85	13.00	14.10	4.95	26
6	0.310	84	0.80	5.10	1.80	1.85	14.60	16.00	3.30	31
10	0.310	140	1.00	6.50	2.00	2.00	18.00	20.35	1.91	42
16	0.310	224	1.00	8.00	2.00	2.00	21.20	23.40	1.21	57
25	0.310	350	1.20	10.10	2.15	2.20	26.00	26.80	0.780	72
35	0.310	490	1.20	11.30	2.15	2.20	28.30	31.50	0.554	90
50	0.310	703	1.40	13.60	2.25	2.30	33.50	37.30	0.386	115
70	0.310	988	1.40	15.30	2.45	2.60	37.80	42.20	0.272	143
95	0.310	1349	1.60	18.00	2.40	2.65	43.50	48.80	0.206	165

Special Features:

Excellent resistant to moisture, abrasion, greace, oil | Excellent mechanical & electrical properties | Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694 | Temperature range -15°C to +70°C

Applications:

For Equipment used in the following applications : Irrigation | Offshore Drilling Rigs | Drinking water-supply | Sewage Treatment Plant | Industries | Sea Water Handling | Mine De-watering | Fire Fighting

SAMUDRA

Headquarters :

Samudra Pte Ltd
1 Keong Saik Road,
Unit 10 - The Working Capitol
Singapore 089109

+65 6813 2111

info@samudra.net

India Operations :

Samudra Pumps (India) Pvt Ltd
Registered Office :
1st Floor, Door No.737/2, Sai Aashrya,
Puliyakulam Road, Puliyakulam,
Coimbatore – 641 045, Tamilnadu, India

+91 82200 48894

exports@samudrapumps.com

EC-PI-L23-E1