555

GTP FOR SINGLE CORE ALUMINIUM CONDUCTOR XLPE INSULATED ARMOURED FRLSH LT POWER CABLE AS PER IS: 7098 (PT.-1)/1988

S.No.	ITEM	UNIT	1C X 150 Sq.mm	1C X 300 Sq.mm	1C X 630 Sq.mm
1	Name of the Manufacturer		Pasondia Cables Pvt. Ltd., Ghaziabad.		
2	Standard applicable		IS 7098 (P-I) 1988		
3	Voltage Rating	Volts	1100 Volts		
4	Conductor Material		Al. Conductor As per IS 8130 / 1984		
5	Nominal cross sectional area of conductor	MM	150	300	630
6	Max. DC resistance of the cable at 20°C	Ohm/ Km.	0.206	0.1	0.0469
7	Number of Core	No.	1	1	1
8	Number of conductor Strands	No.	19	37	61
9	Colour of Insulation		Black	Black	Black
10	Compound of Insulation		XLPE	XLPE	XLPE
11	Thickness of Insulation	MM	1.70	2.10	2.80
12	Tolerance in Thickness of insulation	MM	0.27	0.31	0.38
13	Volume Resistivity (Min) At 27°C.	Ohm cm	$1x10^{14}$	$1x10^{14}$	$1x10^{14}$
14	Volume Resistivity (Min) At 90°C.	Ohm cm	$1x10^{12}$	$1x10^{12}$	$1x10^{12}$
15	Tensile Strength of Insulation	N/mm^2	12.5	12.5	12.5
16	Minimum Elongation Percentage	%	200	200	200
17	Hot Set Test at Temp.	^0C	200 ±3	200 ±3	200 ±3
18	Elongation under Load(Max.)	%	175	175	175
19	Permanent set after cooling (Max.)	%	15	15	15
20	Thickness of Inner Sheath	MM	N/A	N/A	N/A
21	Armouring		As per IS: 3975/1979		
22	Material of Outher Sheath		(ST-2) FRLSH	(ST-2) FRLSH	(ST-2) FRLSH
23	Thickness of Outer Sheath	MM	1.4	1.56	1.72
25	Tensile Strength of Sheath	N/mm^2	12.5	12.5	12.5
26	Minimum Elongation Percentage	%	150	150	150
27	High Voltage Test		3KV for 5 Minutes	3KV for 5 Minutes	3KV for 5 Minutes
28	Standard Length	Mtr.	250±5%	250±5%	250±5%
29	Mode of Cable Packing		Packed in Suitable Wooden Drum		

For Pasondia Cables Pvt. Ltd

Authorised Signatory

APPROVED

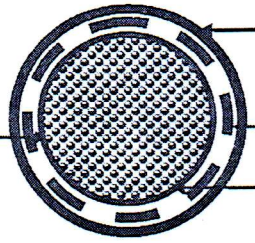
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2017

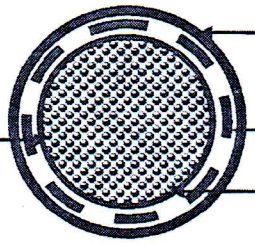
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company
Vidyut Bhawan, Patna

Pasondia
CABLES PRIVATE LIMITED

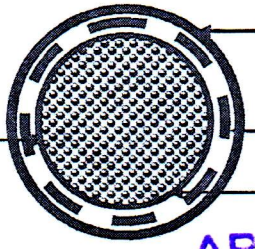
1. ***CONSTRUCTIONAL DRAWING OF SINGLE CORE 150 SQ.MM ALUMINIUM CONDUCTOR XLPE INSULATED ARMOURED CABLE AS PER IS:7098PART-I/1988.***



2. ***CONSTRUCTIONAL DRAWING OF SINGLE CORE 300 SQ.MM ALUMINIUM CONDUCTOR XLPE INSULATED ARMOURED CABLE AS PER IS:7098PART-I/1988.***



3. ***CONSTRUCTIONAL DRAWING OF SINGLE CORE 630 SQ.MM ALUMINIUM CONDUCTOR XLPE INSULATED ARMOURED CABLE AS PER IS:7098PART-I/1988.***



PASONDIA CABLES PVT. LTD. 23 Naya Ganj

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

GTP FOR 3.5 CORE ALUMINIUM CONDUCTOR XLPE INSULATED ARMOURED FRLSH LT POWER CABLE AS PER IS: 7098 (PT.-1)/1988

S. No.	ITEM	UNIT	3.5C X 95 Sq.mm	3.5C X 150 Sq.mm	3.5C X 300 Sq.mm
1	Name of the Manufacturer		Pasondia Cables Pvt. Ltd., Ghaziabad.		
2	Standard applicable		IS 7098 (P-I) 1988		
3	Voltage Rating	Volts	1100 Volts		
4	Conductor Material		Al. Conductor As per IS 8130 / 1984		
5	Nominal cross sectional area of conductor	MM	95/50	150/70	300/150
6	Max. DC resistance of the cable at 20°C	Ohm/ Km.	0.320/0.641	0.206/0.443	0.1/0.206
7	Number of Core	No.	3.5	3.5	3.5
8	Number of conductor Strands	No.	19/7	19/19	37/19
9	Colour of Insulation		Red/Yellow/Blue/ Black		
10	Compound of Insulation		XLPE		
11	Thickness of Insulation	MM	1.10/1.00	1.40/1.10	1.80/1.40
12	Tolerance in Thickness of insulation	MM	0.21/0.20	0.24/0.21	0.28/0.24
13	Volume Resistivity (Min) At 27°C.	Ohm cm	$1x10^{14}$		
14	Volume Resistivity (Min) At 90°C.	Ohm cm	$1x10^{12}$		
15	Tensile Strength of Insulation	N/mm^2	12.5		
16	Minimum Elongation Percentage	%	200		
17	Hot Set Test at Temp.	^0C	200±3		
18	Elongation under Load(Max.)	%	175		
19	Permanent set after cooling (Max.)	%	15		
20	Thickness of Inner Sheath	MM	0.40	0.50	0.60
21	Armouring		As per IS: 3975/1979		
22	Material of Outher Sheath		(ST-2) FRLSH		
23	Thickness of Outer Sheath	MM	1.56	1.72	2.20
25	Tensile Strength of Sheath	N/mm^2	12.5		
26	Minimum Elongation Percentage	%	150		
27	High Voltage Test		3KV for 5 Minutes		
28	Standard Length	Mtr.	500±5% or 250±5%		
29	Mode of Cable Packing		Packed in Suitable Wooden Drum		

For Pasondia Cables Pvt. Ltd

PASONDIA CABLES PVT. LTD. 23 Naya Ganj

Authorised Signatory

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

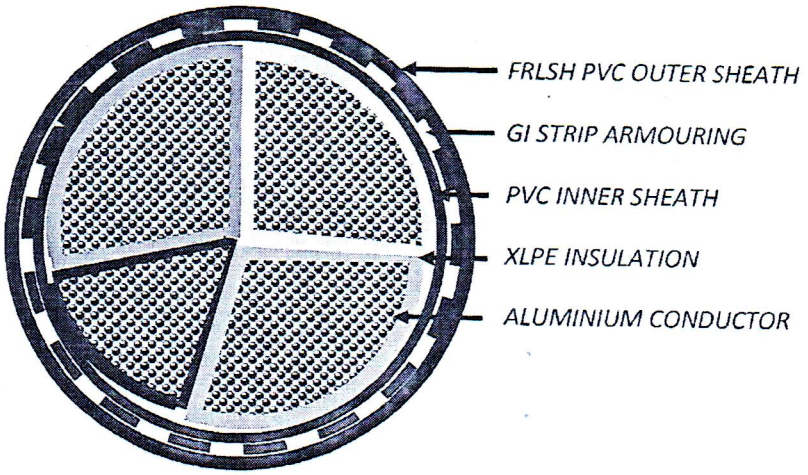
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

01 SEP 2022

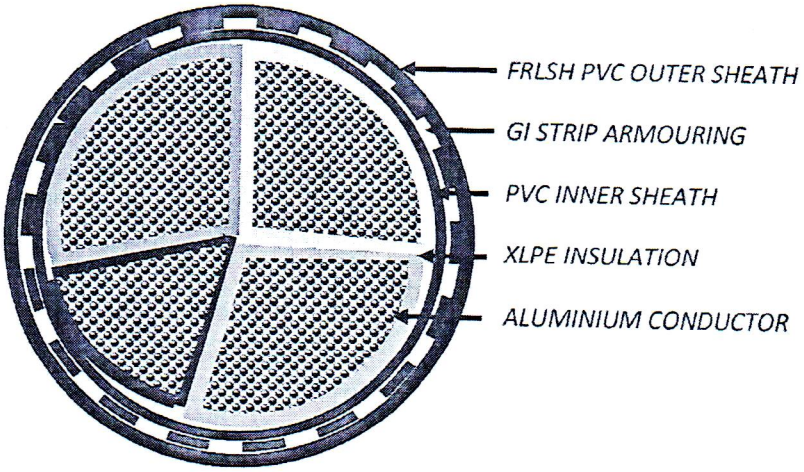
Pasondia CABLES PRIVATE LIMITED

AS PER IS:7098PART-I/1988.

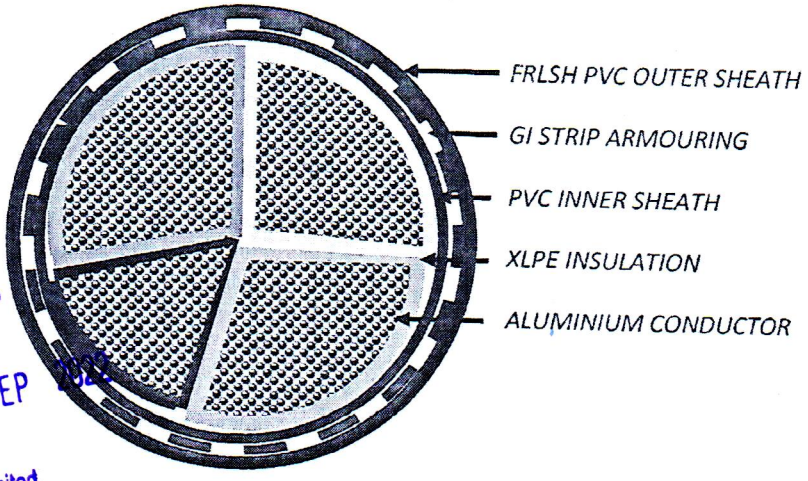
1. **CONSTRUCTIONAL DRG. OF 3.5CX 95 SQ.MM AL. COND. XLPE INSULATED ARMOURED CABLE.**



2. **CONSTRUCTIONAL DRG. OF 3.5CX 150 SQ.MM AL. COND. XLPE INSULATED ARMOURED CABLE.**



3. **CONSTRUCTIONAL DRG. OF 3.5CX 150 SQ.MM AL. COND. XLPE INSULATED ARMOURED CABLE.**



APPROVED
Subject to the conditions that you are not absolved of the responsibility of the materials supplied as per specification
01 SEP 2008
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

GTP For 1.1 KV PVC FRLSH Armoured 3.5 Core Power Cable

S. No.	PARTICULARS	Size of Cable in (Sqmm)	
		3.5Cx35	3.5Cx70
1	**Name of Manufacturer**	M/s Pasondia Cables Pvt. Ltd., Ghaziabad (U.P.)	
2	**Type & Make of cable**	1.1 KV PVC FRLSH Armoured Power Cable	
3	**Cable Type**	AYFY	
	Type & Size	3.5Cx35	3.5Cx70
	Standard applicable	IS 1554 (P-I) 1988 with Last Amendment	
	Voltage Rating	1100 Volts	
	Permissible Variation in	Voltage may very by ± 10%	
	Voltage & Frequency.	Frequency by ± 5%	
	Suitable for earthed / unearthed System.	Suitable for Both	
4	**DETAILS OF CONDUCTOR :**		
	Material	Aluminium Conductor (H2/H4 Grade)	
	Cross sectional area of conductor (Sq.mm)	35/16	70/35
	Shape of Conductor	Aluminium Shaped Conductor	
	Max. DC resistance of conductor at 20°C in Ohm/ Km.	0.868/1.91	0.443/0..868
5	**NUMBER OF CORE**	3.5C	3.5C
6	**DETAILS OF INSULATION**		
	Type of Insulation	Type - A, of IS 5831/1984	
	Composition of Insulation	PVC Compound	
	Thickness of Insulation (mm) M/N	1.20/1.00	1.40/1.20
	Tolerance of Thickness of insulation M/N	0.1+0.1xt1 mm	
	Volume Resistivity in Ohm/Cm (Min)		
	At 27°C.	$1x10^{13}$ Ohm cm	
	At 70°C.	$1x10^{10}$ Ohm cm	
	Tensile Strength of Insulation Material	12.5 N/mm^2	
	Minimum Elongation Percentage	150%	
7	**SHEATHING DETAILS**		
7.1	INNER SHEATH		
	Material of Sheathing	PVC Type ST-1	
	Type of Sheathing (Extruded or Wrapped)	Extruded	
	Thickness of Sheath (mm)	0.30	0.40
7.2	**OUTER SHEATH**		
	Material of Sheathing	PVC Type ST -2 FRLSH	
	Type of Sheathing (Extruded or Wrapped)	Extruded	
	Minimum Thickness (mm)	1.40	1.56
8	**ARMOURING**		
	Material of Armouring	GI Strip	GI Strip
	Size of GI Wire/Strip (mm)	4x0.8±10%	4x0.8±10%
9	**Overall Diameter (Approx)**	24.5	31.0
10	Standard drum length of cable in Mtrs. To be supplied	500Mtrs.± 5%	500Mtrs.± 5%
11	**Current rating of cable under basic assumption**		
	Laid in Ground Temp 30°C	92	135
	Laid in Duct Temp 30°C	77	115
	Laid in air Temp 40°C	86	130
12	Minimum Bending Radious	12 x Over all dia of Cable	
13	Short circuit current carring capacity for 1 Sec(In KA)	2.66	5.32
14	Insulation resistance at 27°C (Mega Ohms/Kms.)	36.7	
15	Reference of standard to which the drum conform	IS 10418 (P-1) 1982	
16	Reference of Licence to use ISI Certificate Mark.	CM/L-8667504 Valid upto 29.02.2023	

For Pasondia Cables Pvt Ltd

Authorised Signatory

PASONDIA CABLES PVT. LTD. 73 Nehya Ganj

APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

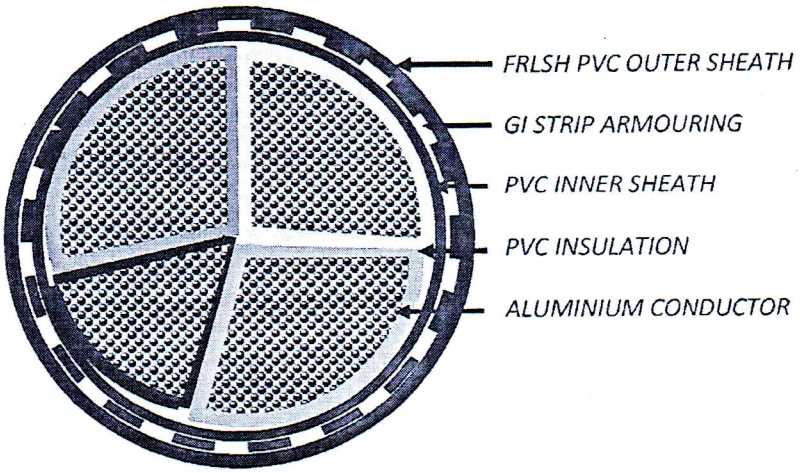
01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company
Vidyut Bhawan, Patna-800021

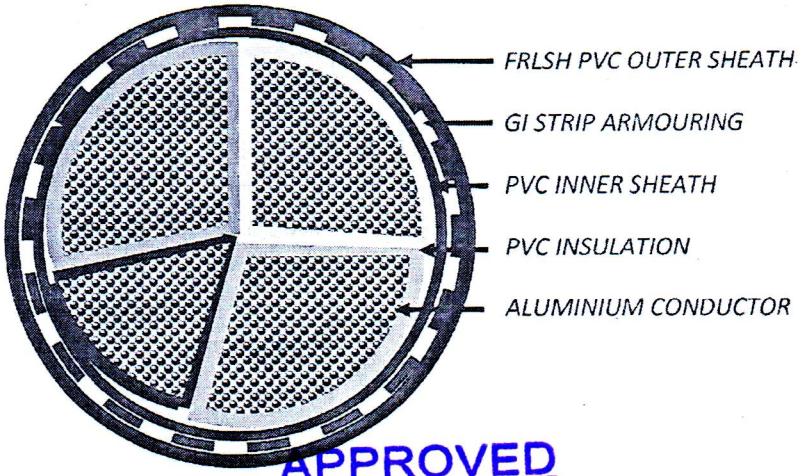
Pasondia
CABLES PRIVATE LIMITED

AS PER IS:1554 PART-I/1988.

1. CONSTRUCTIONAL DRG. OF 3.5CX35 SQ.MM AL. COND. PVC INSULATED ARMOURED CABLE.



2. CONSTRUCTIONAL DRG. OF 3.5CX70 SQ.MM AL. COND. PVC INSULATED ARMOURED CABLE.



PASONDIA CABLES PVT. LTD. 23 New Delhi

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Ltd.
Vidyut Bhawan, Patna

GTP For 1.1 KV PVC FRLSH Armoured 4 Core Power Cable

S. No.	PARTICULARS	Size of Cable in (Sqmm)	
		4Cx6	4Cx16
1	**Name of Manufacturer**	M/s Pasondia Cables Pvt. Ltd., Ghaziabad (U.P.)	
2	**Type & Make of cable**	1.1 KV PVC FRLSH Armoured Power Cable	
3	**Cable Type**	AYWY	AYFY
	Type & Size	4Cx6	4Cx16
	Standard applicable	IS 1554 (P-I) 1988 with Last Amendment	
	Voltage Rating	1100 Volts	
	Permissible Variation in	Voltage may very by ± 10%	
	Voltage & Frequency.	Frequency by ± 5%	
	Suitable for earthed / unearthed System.	Suitable for Both	
4	**DETAILS OF CONDUCTOR :**		
	Material	Aluminium Conductor (H2/H4 Grade)	
	Cross sectional area of conductor (Sq.mm)	6	16
	Shape of Conductor	Stranded circular conductor	Stranded shaped conductor
	Max. DC resistance of conductor at 20°C in Ohm/	4.61	1.91
5	**NUMBER OF CORE**	4	4
6	**DETAILS OF INSULATION**		
	Type of Insulation	Type - A, of IS 5831/1984	
	Composition of Insulation	PVC Compound	
	Thickness of Insulation (mm) M/N	1/1	1/1
	Tolerance of Thickness of insulation M/N	0.1+0.1xt1 mm	
	Volume Resistivity in Ohm/Cm (Min)		
	At 27°C.	$1x10^{13}$ Ohm cm	
	At 70°C.	$1x10^{10}$ Ohm cm	
	Tensile Strength of Insulation Material	12.5 N/mm^2	
	Minimum Elongation Percentage	150%	
7	**SHEATHING DETAILS**		
7.1	INNER SHEATH		
	Material of Sheathing	PVC Type ST-1	
	Type of Sheathing (Extruded or Wrapped)	Extruded	
	Thickness of Sheath (mm)	0.30	0.30
7.2	**OUTER SHEATH**		
	Material of Sheathing	PVC Type ST -2 FRLSH	
	Type of Sheathing (Extruded or Wrapped)	Extruded	
	Minimum Thickness (mm)	1.24	1.40
8	**ARMOURING**		
	Material of Armouring	GI wire	GI Strip
	Size of GI Wire/Strip (mm)	1.40±10%	4x0.8±10%
9	**Overall Diameter (Approx)**	17.48	20.7
10	Standard drum length of cable in Mtrs.	1000Mtrs.± 5%	1000Mtrs.± 5%
11	**Current rating of cable under basic assumption**		
	Laid in Ground Temp 30°C	35	60
	Laid in Duct Temp 30°C	30	50
	Laid in air Temp 40°C	30	51
12	Minimum Bending Radious	12 x Over all dia of Cable	
13	Short circuit current carring capacity for 1 Sec(KA)	0.46	1.22
14	Insulation resistance at 27°C (Mega Ohms/Kms.)	36.7	
15	Reference of standard to which the drum conform	IS 10418 (P-1) 1982	
16	Reference of Licence to use ISI Certificate Mark.	CM/L-8667504 Valid upto 29.02.2023	

For Pasondia Cables Pvt. Ltd.

PASONDIA CABLES PVT. LTD. 23 Naya Ganj

Authorised Signatory

APPROVED

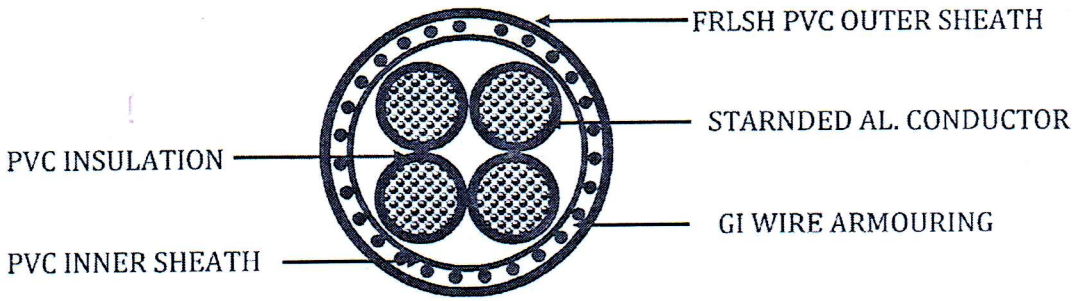
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

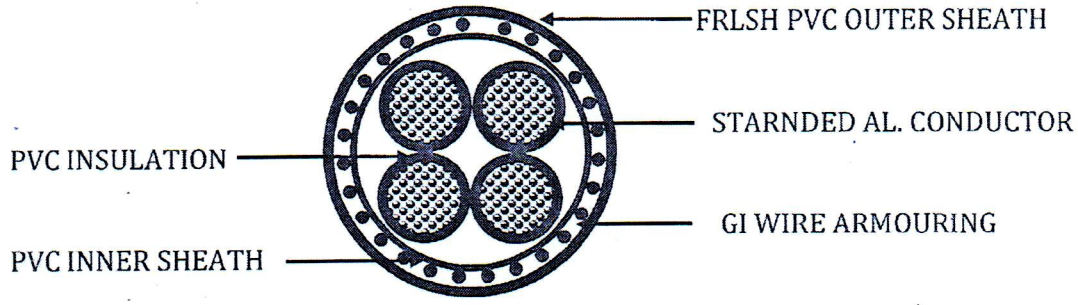
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Ltd.
Vidyut Bhawan, Patna-800021

Pasondia
CABLES PRIVATE LIMITED

1. *CONSTRUCTIONAL DRG. OF 4CX6 SQ.MM AL. COND. PVC INSULATED ARMOURED CABLE AS PER IS:1554 PART-I/1988*



2. *CONSTRUCTIONAL DRG. OF 4CX16 SQ.MM AL. COND. PVC INSULATED ARMOURED CABLE AS PER IS:1554 PART-I/1988*



PASONDIA CABLES PVT. LTD. 23 Navin Ganj

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Ltd.
Vidyut Bhawan, Patna-800021

547

GTP For 1.1 KV PVC FRLSH Armoured 2 Core Power Cable

S. No.	PARTICULARS	Size of Cable in (Sqmm)
		2Cx6
1	**Name of Manufacturer**	M/s Pasondia Cables Pvt. Ltd., Ghaziabad (U.P.)
2	**Type & Make of cable**	1.1 KV PVC FRLSH Armoured Power Cable
3	**Cable Type**	AYWY
	Type & Size	2Cx6
	Standard applicable	IS 1554 (P-I) 1988 with Last Amendment
	Voltage Rating	1100 Volts
	Permissible Variation in	Voltage may very by ± 10%
	Voltage & Frequency.	Frequency by ± 5%
	Suitable for earthed / unearthed System.	Suitable for Both
4	**DETAILS OF CONDUCTOR :**	
	Material	Aluminium Conductor (H2/H4 Grade)
	Cross sectional area of conductor (Sq.mm)	6
	Shape of Conductor	stranded circular conductor
	Max. DC resistance of conductor at 20°C in Ohm/ Km.	4.61
5	**NUMBER OF CORE**	2
6	**DETAILS OF INSULATION**	
	Type of Insulation	Type - A, of IS 5831/1984
	Composition of Insulation	PVC Compound
	Thickness of Insulation (mm) M/N	1/1
	Tolerance of Thickness of insulation M/N	0.1+0.1xt1 mm
	Volume Resistivity in Ohm/Cm (Min)	
	At 27°C.	$1x10^{13}$ Ohm cm
	At 70°C.	$1x10^{10}$ Ohm cm
	Tensile Strength of Insulation Material	12.5 N/mm^2
	Minimum Elongation Percentage	150%
7	**SHEATHING DETAILS**	
7.1	INNER SHEATH	
	Material of Sheathing	PVC Type ST-1
	Type of Sheathing (Extruded or Wrapped)	Extruded
	Thickness of Sheath (mm)	0.30
7.2	**OUTER SHEATH**	
	Material of Sheathing	PVC Type ST -2 FRLSH
	Type of Sheathing (Extruded or Wrapped)	Extruded
	Minimum Thickness (mm)	1.24
8	**ARMOURING**	
	Material of Armouring	GI wire
	Size of GI Wire/Strip (mm)	1.40±10%
9	**Overall Diameter (Approx)**	15.78
10	Standard drum length of cable in Mtrs. To be supplied	1000Mtrs.± 5%
11	**Current rating of cable under basic assumption**	
	Laid in Ground Temp 30°C	40
	Laid in Duct Temp 30°C	34
	Laid in air Temp 40°C	35
12	Minimum Bending Radious	12 x Over all dia of Cable
13	Short circuit current carring capacity for 1 Sec(In KA)	0.455
14	Insulation resistance at 27°C (Mega Ohms/Kms.)	36.7
15	Reference of standard to which the drum conform	IS 10418 (P-1) 1982
16	Reference of Licence to use ISI Certificate Mark.	CM/L-8667504 Valid upto 29.02.2023

For Pasondia Cables Pvt. Ltd.

PASONDIA CABLES PVT. LTD. 25 Naya Ganj

Authorised Signatory

APPROVED

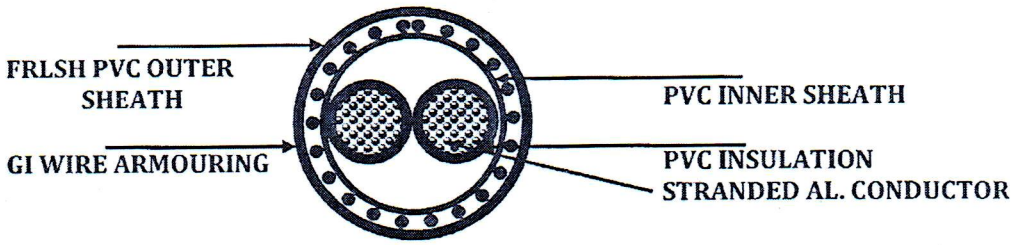
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRG. OF 2CX6 SQ.MM AL. COND. PVC INSULATED ARMOURED CABLE AS PER IS:1554 PART-I/1988



INDIA CABLES PVT. LTD. 23 Noida Gaut

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

545

GTP For 1.1 KV PVC FRLSH Copper Control Cable

SL. NO.	PARTICULARS	Size of Cable in (Sqmm)								
		2Cx2.5	3CX2.5	4Cx2.5	5Cx2.5	7Cx2.5	10Cx2.5	14Cx2.5	19Cx2.5	27Cx2.5
1	Name of Manufacturer	M/s Pasondia Cables Pvt. Ltd., Ghaziabad (U.P.)								
2	Type & Make of cable	1.1 KV PVC FRLSH Control Cables, & Pasondia Cables								
3	Cable Type	YWY/YFY								
	Type & Size (Sqmm)	2Cx2.5	3CX2.5	4Cx2.5	5Cx2.5	7Cx2.5	10Cx2.5	14Cx2.5	19Cx2.5	27Cx2.5
	Standard applicable	IS 1554 (P-I) 1988								
	Voltage Rating	1100 Volts								
	Permissible Variation in Voltage & Frequency.	Voltage may very by ± 10%								
		Frequency ± 5%								
	Suitable for earthed / unearthed System.	Suitable for Both								
4	DETAILS OF CONDUCTOR :	Plain annealed high conductivity copper conductor								
	Material	As per IS 8130 / 1984								
	Cross sectional area of conductor (Sq.mm)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Shape of Conductor	Stranded Copper Conductor								
	Max. DC resistance of conductor at 20°C in Ohm/ Km.	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41
5	NUMBER OF CORE	2	3	4	5	7	10	14	19	27
6	DETAILS OF INSULATION									
	Type of Insulation	Type - A, of IS 5831/1984								
	Composition of Insulation	PVC Compound								
	Thickness of Insulation (mm)	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tolerance of Thickness of insulation	0.1+0.1xt1 mm								
	Volume Resistivity in Ohm-cm (Min)									
	At 27°C.	$1x10^{13}$ Ohm cm								
	At 70°C.	$1x10^{10}$ Ohm cm								
	Tensile Strength of Insulation Material (N/mm2)	12.5 N/mm^2								
	Minimum Elongation Percentage	150%								
7	SHEATHING DETAILS									
7.1	INNER SHEATH									
	Material of Sheathing	PVC Type ST-1								
	Type of Sheathing (Extruded or Wrapped)	Extruded								
	Thickness of Sheath (mm)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
7.2	OUTER SHEATH									
	Material of Sheathing	PVC Type ST -2 FRLSH								
	Type of Sheathing (Extruded or Wrapped)	Extruded								
	Nominal Thickness (mm)	1.24	1.24	1.24	1.24	1.24	1.40	1.40	1.40	1.56 ~~1.40~~
8	ARMOURING									
	Armouring	As per IS:3975/1979								
9	Overall Diameter (Approx)	12.00	13.00	14.00	15.00	17.00	19.80	21.00	23.00	28.00
10	Standard drum length of cable in Mtrs. To be supplied	1000 Mtrs. ± 5% or 500 Mtrs. ± 5%								
11	Current rating of cable under basic assumption									
	Laid in Ground Temp 30°C	38	30	30	30	22	20	18	16	13
	Laid in Duct Temp 30°C	32	28	28	28	20	16	15	14	12
	Laid in air Temp 40°C	32	28	28	28	20	16	15	14	12
12	Minimum Bending Radious	12 x OD								
13	Short circuit current carring capacity for duration of 1Sec (In KA)	0.288								
14	Insulation resistance at 27°C (Mega Ohms / Kms.)	36.7 Mega Ohm - Km								
15	Reference of standard to which the drum conform	IS 10418 (P-I) 1982								
16	Reference of Licence to use ISI Certificate Mark.	CM/L-8667504 Valid up to 29.02.2023								

For Pasondia Cables

Authorised Signatory

PASONDIA CABLES PVT. LTD. 23 Hapur Gzb

APPROVED As Corrected

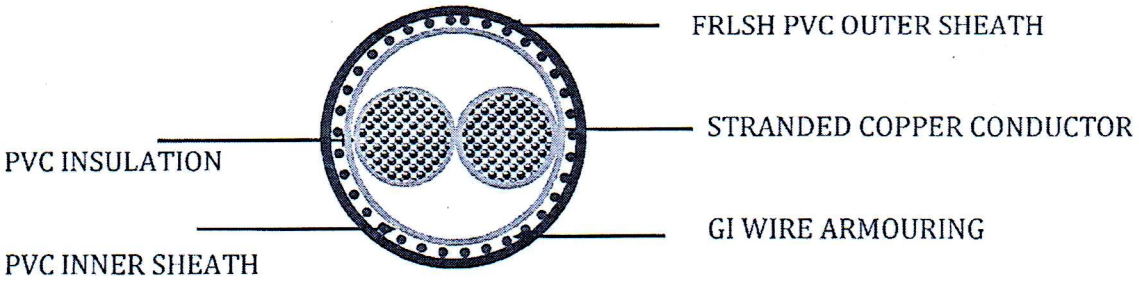
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna

Pasondia
CABLES PRIVATE LIMITED

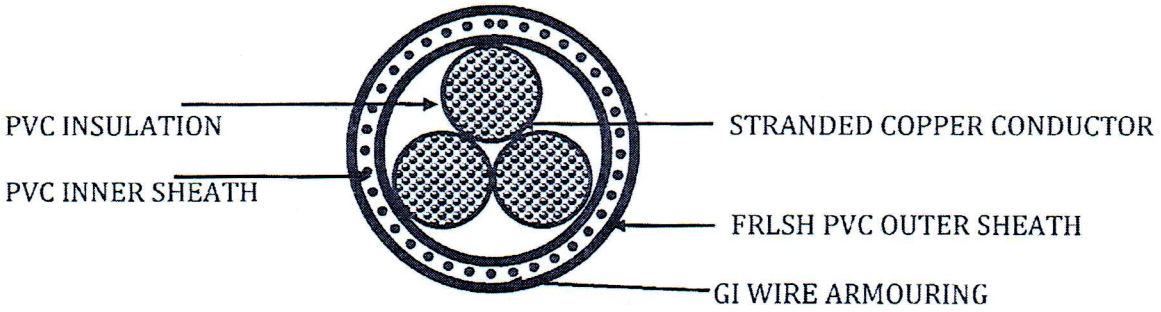
CONSTRUCTIONAL DRAWING OF 2Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification
01 SEP 2022
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 3Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



APPROVED
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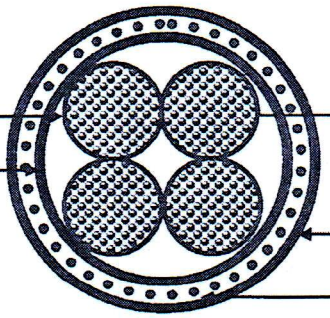
Electrical Superintending Engineer 01 SEP 2022
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

PASONDIA CABLES PVT. LTD. 23 Nagar Gaon

542

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 4Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification
01 SEP 2024
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

PASONDIA CABLES PVT. LTD. 23 Nava Ganj

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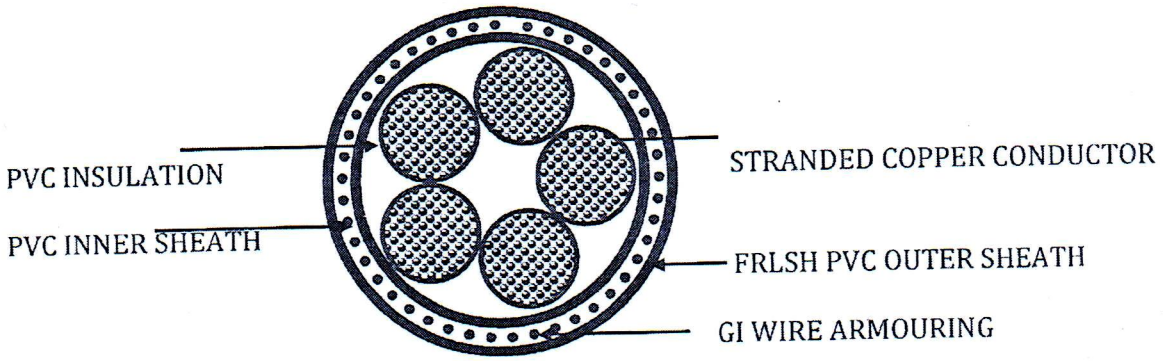
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 5Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



APPROVED
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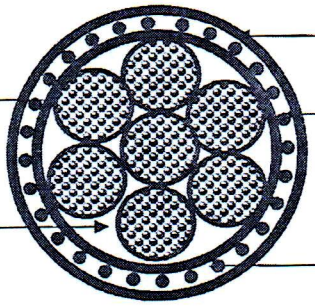
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Ltd.
Vidyut Bhawan, Patna-800021

01 SEP 2022

INDIA CABLES PVT. LTD. 23 Nava Ganj

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 7Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



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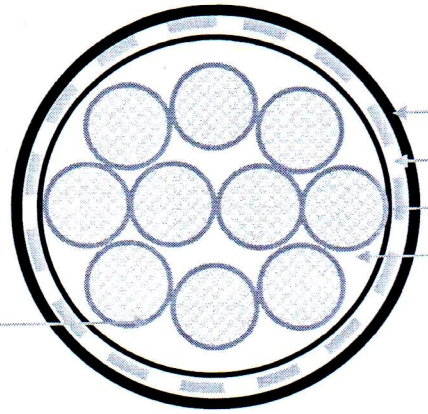
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

01 SEP 2022

INDIA CABLES PVT. LTD. 23 Nava Gam

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTION DRAWING OF "10CX2.5 SQ.MM" ARMOURED CONTROL CABLE



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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

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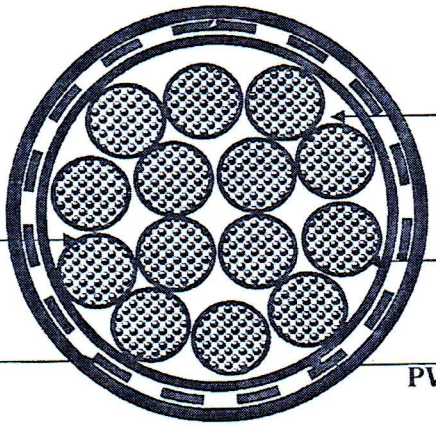
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 14Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



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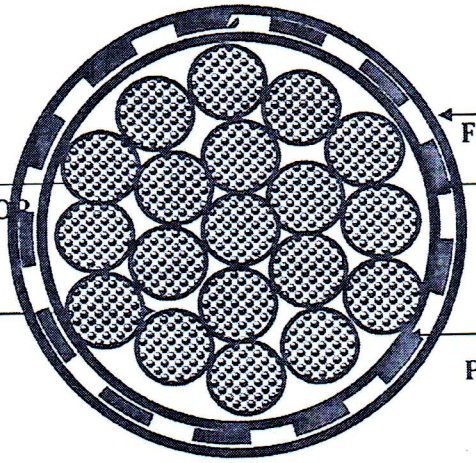
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Ltd.
Vidyut Bhawan, Patna-800021

01 SEP 2022

PASONDIA CABLES PVT. LTD. 23 Marg Ganj

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 19Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



APPROVED
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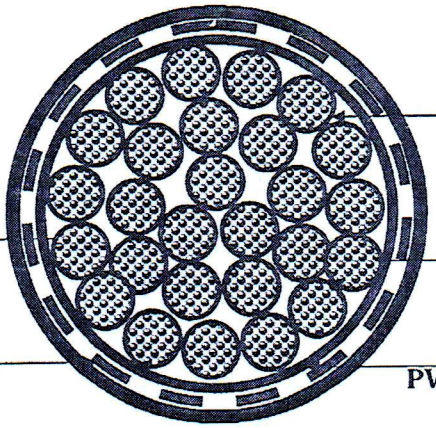
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

01 SEP 2022

PASONDIA CABLES PVT. LTD. 23 Naya Gaon

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 27Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



APPROVED
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01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Ltd.
Vidyut Bhawan, Patna-800 021

PASONDIA CABLES PVT. LTD. 23 Nava Ganj

GTP For 1.1 KV PVC FRLSH Copper Control Cable

SL. NO.	PARTICULARS	Size of Cable in (Sqmm)	
		7Cx1.5	14Cx1.5
1	**Name of Manufacturer**	**M/s Pasondia Cables Pvt. Ltd., Ghaziabad (U.P.)**	
2	**Type & Make of cable**	1.1 KV PVC FRLSH Control Cables, & Pasondia Cables	
3	**Cable Type**	YWY/YFY	
	Type & Size (Sqmm)	7Cx2.5	14Cx2.5
	Standard applicable	IS 1554 (P-I) 1988	
	Voltage Rating	1100 Volts	
	Permissible Variation in Voltage & Frequency.	Voltage may very by ± 10%	
		Frequency ± 5%	
	Suitable for earthed / unearthed System.	Suitable for Both	
4	**DETAILS OF CONDUCTOR :**	Plain annealed high conductivity copper conductor	
	Material	As per IS 8130 / 1984	
	Cross sectional area of conductor (Sq.mm)	1.5	1.5
	Shape of Conductor	Stranded Copper Conductor	
	Max. DC resistance of conductor at 20°C in Ohm/ Km.	12.10	12.10
5	**NUMBER OF CORE**	7	14
6	**DETAILS OF INSULATION**		
	Type of Insulation	Type - A, of IS 5831/1984	
	Composition of Insulation	PVC Compound	
	Thickness of Insulation (mm)	0.90	0.90
	Tolerance of Thickness of insulation	0.1+0.1xt1 mm	
	Volume Resistivity in Ohm-cm (Min)		
	At 27°C.	$1x10^{13}$ Ohm cm	
	At 70°C.	$1x10^{10}$ Ohm cm	
	Tensile Strength of Insulation Material (N/mm2)	12.5 N/mm^2	
	Minimum Elongation Percentage	150%	
7	**SHEATHING DETAILS**		
7.1	**INNER SHEATH**		
	Material of Sheathing	PVC Type ST-1	
	Type of Sheathing (Extruded or Wrapped)	Extruded	
	Thickness of Sheath (mm)	0.30	0.30
7.2	**OUTER SHEATH**		
	Material of Sheathing	PVC Type ST -2 FRLSH	
	Type of Sheathing (Extruded or Wrapped)	Extruded	
	Nominal Thickness (mm)	1.24	1.40
8	**ARMOURING**		
	Armouring	As per IS:3975/1979	
9	**Overall Diameter (Approx)**	14.00	19.00
10	Standard drum length of cable in Mtrs. To be supplied	1000 Mtrs. ± 5% or 500 Mtrs. ± 5%	
11	**Current rating of cable under basic assumption**		
	Laid in Ground Temp 30°C	14	11
	Laid in Duct Temp 30°C	13	10
	Laid in air Temp 40°C	13	10
12	Minimum Bending Radious	12 x OD	
13	**Short circuit current carring capacity for duration of 1Sec (In KA)**	0.288	
14	**Insulation resistance at 27°C (Mega Ohms / Kms.)**	36.7 Mega Ohm - Km	
15	**Reference of standard to which the drum conform**	IS 10418 (P-I) 1982	
16	**Reference of Licence to use ISI Certificate Mark.**	CM/L-8667504 Valid up to 29.02.2023	

For Pasondia Cables Pvt. Ltd.

Authorised Signatory

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

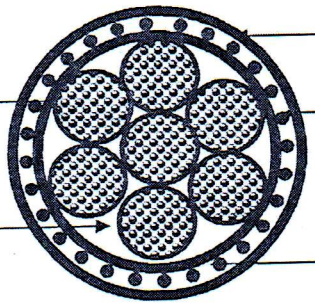
01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

534

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 7Cx1.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

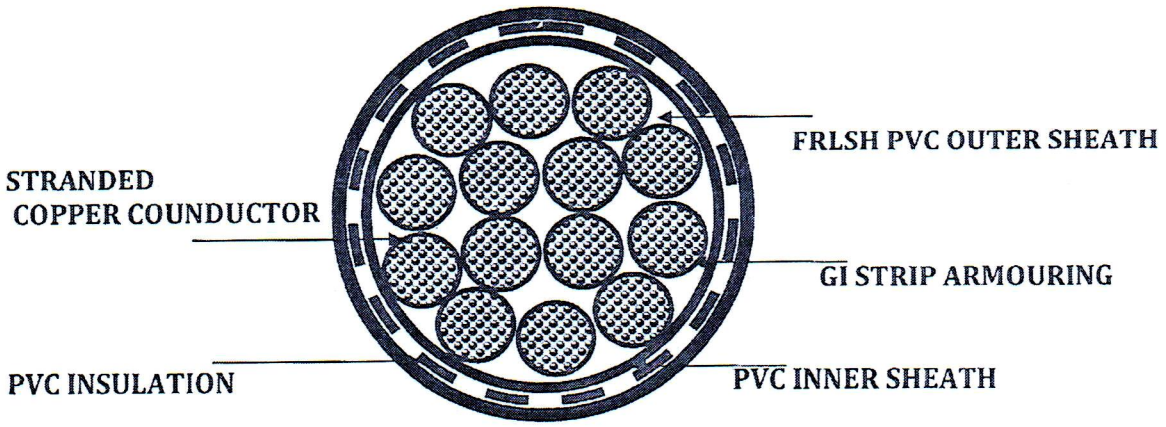
01 SEP 2022

PASONDIA CABLES PVT. LTD. 23 (Naya Ganj)

533

Pasondia
CABLES PRIVATE LIMITED

CONSTRUCTIONAL DRAWING OF 14Cx1.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.



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01 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

PASONDIA CABLES PVT. LTD. 23 Nava Ganj