G7	TP FOR SINGLE CORE ALUMINIUN FRLSH LT POWER CAB				RMOURED
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) 198	38
3	Voltage Rating	Volts		1100 Volts	
4	Conductor Material		Al. Condu	ictor As per IS 83	130 / 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/mm²	12.5	12.5	12.5
16	Minimum Elongation Percentage	%	200	200	200
17	Hot Set Test at Temp.	°C	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: 3975/19	79
22	Material of Outher Sheath		(ST-2) FRLSH	(ST-2) FRLSH	(ST-2) FRLSH
23	Thickness of Outer Sheath	ММ	1.4	1.56	1.72
25	Tensile Strength of Sheath	N/mm²	12.5	12.5	12.5
26	Minimum Elongation Percentage	%	150	150	150
	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%
	Mode of Cable Packing		Packed in	n Suitable Wood	en Drum

For Pasondia Cables Pvt. Ltd

Authorised Signatory

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Subject to the condition that you are not absolved of the responsibility for corresponding the materials supplied as responsibility for corresponding to the materials supplied as responsibility for corresponding to the materials supplied as responsibility for corresponding to the materials are responsible to the condition that you are not absolved of the materials are responsible to the condition that you are not absolved of the responsibility for corresponding to the materials are responsible to the condition that you are not absolved of the responsibility for corresponding to the materials are responsible to the material are responsible to the materials are responsible to the material are responsible to the mater

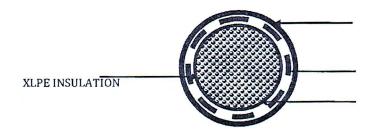
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Electrical Superintenting Engineer (Planning and Engineering)

Bites State Power Transmission ComVidyut Bhawan, Patra



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

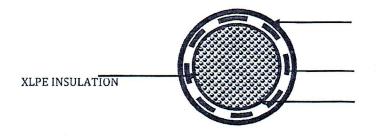


FRLSH PVC OUTER SHEATH

150 SQ.MM ALUMINIUM CONDUCTOR

ALUMINIUM STRIP ARMOURING

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



FRLSH PVC OUTER SHEATH

300 SQ.MM ALUMINIUM CONDUCTOR

ALUMINIUM STRIP ARMOURING

3. CONSTRUCTIONAL DRAWING OF SINGLE CORE 630 SQ.MM ALUMINIUM CONDUCTOR XLPE INSULATED ARMOURED CABLE AS PER IS:7098PART-1/1988.



FRLSH PVC OUTER SHEATH

630 SQ.MM ALUMINIUM CONDUCTOR

ALUMINIUM STRIP ARMOURING

XLPE INSULATION



APPROVED

Subject to the condition that you are not absolved of the responsibility for correctoess of the materials supplied as t , pacification

0 1 SEP 2022

Electrical Superintending Engi (Planning and Engineering) Pihar Stata Power Transmission Comp Vidyut Bhawan, PalnaGTP 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			Cables Pvt. Ltd., (
	Standard applicable		IS 7098 (P-I) 1988			
3	Voltage Rating	Volts		1100 Volts		
4	Conductor Material	, , , , ,	Al. Condu	ctor As per IS 81	30 / 1984	
5	Nominal cross sectional area of conductor	ММ	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/ E	Black	
10	Compound of Insulation			XLPE	20	
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.	°C		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	s per IS: 3975/19	979	
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 Minute		
28	Standard Length	Mtr.		00±5% or 250±5		
29	Mode _t of Cable Packing		Packed	in Suitable Wood	den Drum	

For Pasondia Caples Pvt. Ltd

Authorised Signatory 23

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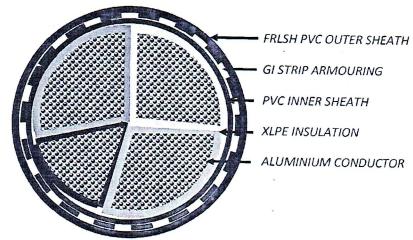
0 1 SEP 2022

Electrical Superintending Engineer (Planning and Engineering) Bihar Stata Power Transmission Company Limited Vidyut Bhawari, Patha-6

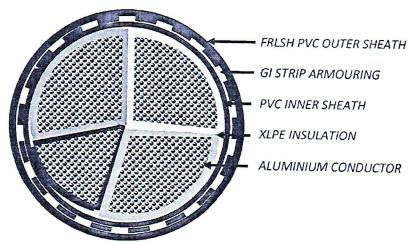
Pasondia

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,



5.		Size of Cable	e in (Sqmm)
0.	PARTICULARS	3.5Cx35	3.5Cx70
1	Name of Manufacturer	M/s Pasondia Cables Pr	rt. Ltd., Ghaziabad (U.P.
2	Type & Make of cable	1.1 KV PVC FRLSH Ar	moured Power Cable
	Cable Type	AY	'FY
	Type & Size	3.5Cx35	3.5Cx70
	Standard applicable	IS 1554 (P-I) 1988 w	vith Last Amendment
}	Voltage Rating	1100	Volts
	Permissible Variation in	Voltage may v	very by ± 10%
	Voltage & Frequency.	Frequenc	y by ± 5%
	Suitable for earthed / unearthed System.	· Suitable	for Both
_	DETAILS OF CONDUCTOR:		
	Material	Aluminium Conduc	ctor (H2/H4 Grade)
1	Cross sectional area of conductor (Sq.mm)	35/16	70/35
	Shape of Conductor	Aluminium Sha	aped Conductor
	Max. DC resistance of conductor at 20°C in Ohm/ Km.	0.868/1.91	0.443/0868
5	NUMBER OF CORE	3.5C	3.5C
	DETAILS OF INSULATION		
	Type of Insulation	Type - A, of I	S 5831/1984
	Composition of Insulation		mpound
	Thickness of Insulation (mm) M/N	1.20/1.00	1.40/1.20
	Tolerance of Thickness of insulation M/N		xt1 mm
5	Volume Resistivity in Ohm/Cm (Min)		
	At 27°C.	1x10 ¹³	Ohm cm
	At 70°C.		Ohm cm
	Tensile Strength of Insulation Material		N/mm²
	Minimum Elongation Percentage		0%
,	SHEATHING DETAILS		
-	INNER SHEATH	7	
	Material of Sheathing	PVC Ty	pe ST-1
.1	Type of Sheathing (Extruded or Wrapped)		uded
	Thickness of Sheath (mm)	0.30	0.40
	OUTER SHEATH		
7.2	Material of Sheathing	PVC Type S	ST -2 FRLSH
.2	Type of Sheathing (Extruded or Wrapped)		uded
	Minimum Thickness (mm)	1.40	1.56
_	ARMOURING		
3	Material of Armouring	GI Strip	Gl Strip
	Size of GI Wire/Strip (mm)	4x0.8±10%	4x0.8±10%
9	Overall Diameter (Approx)	24.5	31.0
	Standard drum length of cable in Mtrs. To be supplied	500Mtrs.± 5%	500Mtrs.± 59
_	Current rating of cable under basic assumption		
	Laid in Ground Temp 30°C	92	135
1	Laid in Duct Temp 30°C	77	115
	Laid in air Temp 40°C	86	130
2	Minimum Bending Radious		l dia of Cable
4	Short circuit current carring capacity for 1 Sec(In KA)	2.66	5.32
_	IDMOLL LILLUIT CHELAITHIS LADALILY BULL ASCITIL NATA		
3			
.3	Insulation resistance at 27°C (Mega Ohms/Kms.) Reference of standard to which the drum conform	30	6.7 (P-1) 1982

For Pasondia Cables Pvt Ltd

Authorised Signatoryaya Can

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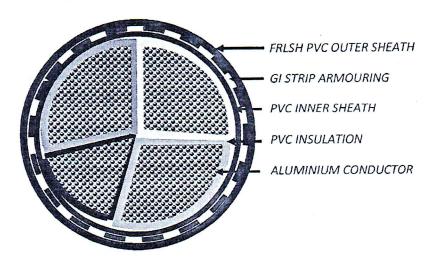
0 1 SEP 2022

Electrical Superintending Engineer
(Planning and Engineering)
Bihar St. 14 Power Transmission Company
Jut Bhawan, Patha-8000

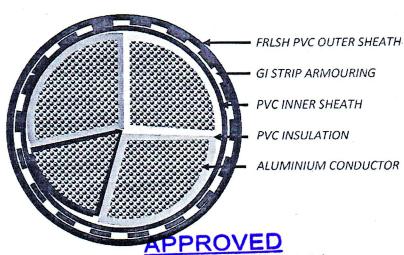


AS PER IS:1554 PART-I/1988.

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.





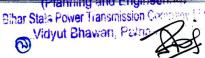
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Electrical Superintending Engineer

(Planning and Engineering)



_		Size of Cable in (Sqmm)				
S. No.	PARTICULARS	4Cx6	4Cx16			
1	Name of Manufacturer	M/s Pasondia Cables Pv	rt. Ltd., Ghaziabad (U.P.)			
2	Type & Make of cable	1.1 KV PVC FRLSH Ar	moured Power Cable			
	Cable Type	AYWY	AYFY			
	Type & Size	4Cx6	4Cx16			
	Standard applicable	IS 1554 (P-I) 1988 w	rith Last Amendment			
3	Voltage Rating	1100	Volts			
-	Permissible Variation in	Voltage may v	very by ± 10%			
	Voltage & Frequency.	Frequenc	y by ± 5%			
	Suitable for earthed / unearthed System.	Suitable	for Both			
	DETAILS OF CONDUCTOR:					
	Material	Aluminium Conduc	ctor (H2/H4 Grade)			
4	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			
	DETAILS OF INSULATION					
	Type of Insulation	Type - A, of I	S 5831/1984			
	Composition of Insulation		mpound			
	Thickness of Insulation (mm) M/N	1/1	1/1			
	Tolerance of Thickness of insulation M/N	0.1+0.1xt1 mm				
6	Volume Resistivity in Ohm/Cm (Min)					
	At 27°C.	1x10 ¹³	Ohm cm			
	At 70°C.		Ohm cm			
	Tensile Strength of Insulation Material		N/mm ²			
	Minimum Elongation Percentage		60%			
7	SHEATHING DETAILS					
	INNER SHEATH					
	Material of Sheathing	PVC Tv	pe ST-1			
7.1	Type of Sheathing (Extruded or Wrapped)		ruded			
	Thickness of Sheath (mm)	0.30	0.30			
	OUTER SHEATH	0.00				
	Material of Sheathing	PVC Tyne S	ST -2 FRLSH			
7.2	Type of Sheathing (Extruded or Wrapped)		ruded			
	Minimum Thickness (mm)	1.24	1.40			
	ARMOURING	1,21				
8	Material of Armouring	Gl wire	GI Strip			
J	Size of Gl Wire/Strip (mm)	1.40±10%	4x0.8±10%			
9	Overall Diameter (Approx)	17.48	20.7			
	Standard drum length of cable in Mtrs.	1000Mtrs.± 5%	1000Mtrs.± 5%			
10	Current rating of cable under basic assumption	2000.100.00				
	Laid in Ground Temp 30°C	35	60			
11	Laid in Ouct Temp 30°C	30	50			
	Laid in Duct Temp 50 C Laid in air Temp 40°C	30	51			
12	Minimum Bending Radious		ll dia of Cable			
	Short circuit current carring capacity for 1 Sec(KA)	0.46	1.22			
			6.7			
	Insulation resistance at 27°C (Mega Ohms/Kms.) Reference of standard to which the drum conform		(P-1) 1982			
12	Reference of standard to which the drum conform Reference of Licence to use ISI Certificate Mark.		alid upto 29.02.2023			

For Pasondia Cables Pyt Ltd

Authorised Signatory

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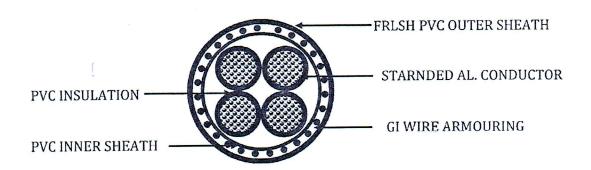
Electrical Superintending Engineer (Planning and Engineering)

Ether State Power Transmission Company Line

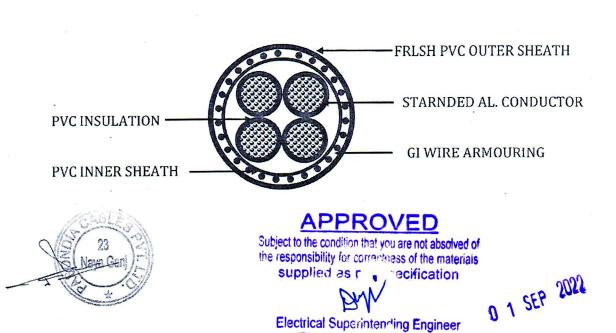
Vidyut Bhawan, Palna-State



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



Electrical Superintending Engineer
(Planning and Engineering)
Pibar State Power Transmission Company to
Cayut Bhawan, Palna-Say

S.		Size of Cable in (Sqmm)
lo.	PARTICULARS	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
_	Cable Type	AYWY
	Type & Size	2Cx6
	Standard applicable	IS 1554 (P-I) 1988 with Last Amendment
3	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
	DETAILS OF CONDUCTOR:	
	Material	Aluminium Conductor (H2/H4 Grade)
4	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
	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
6	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	
	INNER SHEATH	
	Material of Sheathing	PVC Type ST-1
7.1	Type of Sheathing (Extruded or Wrapped)	Extruded
	Thickness of Sheath (mm)	0.30
	OUTER SHEATH	
	Material of Sheathing	PVC Type ST -2 FRLSH
7.2	Type of Sheathing (Extruded or Wrapped)	Extruded
	Minimum Thickness (mm)	1.24
	ARMOURING	
8	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%
	Current rating of cable under basic assumption	
1 1	Laid in Ground Temp 30°C	40
11	Laid in Duct Temp 30°C	34
	Laid in air Temp 40°C	35
12		12 x Over all dia of Cable
	Short circuit current carring capacity for 1 Sec(In KA)	0.455
	Insulation resistance at 27°C (Mega Ohms/Kms.)	36.7
	Reference of standard to which the drum conform	IS 10418 (P-1) 1982
-	Reference of Licence to use ISI Certificate Mark.	CM/L-8667504 Valid upto 29.02.2023

For Pasondia Cables Pvt. Ltd.

Authorised Signatory Nava Gan

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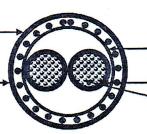
Electrical Superintending Engineer
(Planning and Engineering)
Bihar Stati-Power Transmission Company Lighter
Vidyut Bhawan, Patha-63770



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

FRLSH PVC OUTER **SHEATH**

GI WIRE ARMOURING



PVC INNER SHEATH

PVC INSULATION STRANDED AL. CONDUCTOR



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

O 1 SEP WER

Electrical Superintending Engineer

(Planning and Engineering)

Bihar State Power Transmission Company Limited Vidyut Bhawan, Paina-80

	GTP For 1.1 K	VEVU	LICTOIL	coppe						
SL.	PARTICULARS	200	0.000	40.05		Cable in	(Sqmm).	146,25	19Cx2.5	27Cx2.5
NO.		2Cx2.5	3CX2.5	4Cx2.5	The second second					2/CX2.3
1	ne of Manufacturer				and the second second			bad (U.P.)		
2	Type & Make of cable			1.1 KV PV	C FRLSH C			ondia Cable	es .	
	Cable Type					YWY/YF				
	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)				
3	Voltage Rating		in S			1100 Vol				
	Permissible Variation in Voltage & Frequency.			-			by ± 10%			
						equency :				
	Suitable for earthed / unearthed System.			Distance				a conductor		
	DETAILS OF CONDUCTOR:			Plain ani				r conductor	P	
	Material					er IS 8130		2.5	2.5	1 25
4	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						Conductor			7.41
	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
	DETAILS OF INSULATION									
	Type of Insulation						331/1984			
	Composition of Insulation					VC Compo			· 	
	Thickness of Insulation (mm)	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
6	Tolerance of Thickness of insulation				(0.1+0.1xt1	mm			
U	Volume Resistivity in Ohm-cm (Min)									
	At 27°C.					x10 ¹³ Ohr		[0		
	At 70°C.	1x10 ¹⁰ Ohm cm								
	Tensile Strength of Insulation Material (N/mm2)		n 1			12.5 N/m	m ²			
	Minimum Elongation Percentage					150%	1			
7	SHEATHING DETAILS						1			
	INNER SHEATH									
7.1	Material of Sheathing				I	VC Type	ST-1			
7.1	Type of Sheathing (Extruded or Wrapped)		2			Extrude	d	,	_	
	Thickness of Sheath (mm)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
	OUTER SHEATH									
7.2	Material of Sheathing		7. 4		PVC	Type ST -	2 FRLSH			
7.2	Type of Sheathing (Extruded or Wrapped)					Extrude	ed -			
	Nominal Thickness (mm)	1.24	1.24	1.24	1.24	1.24	1.40	1.40	1.40	1.750
0	ARMOURING								0.	
8	Armouring		120		As p	oer IS:397	5/1979			
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		2		1000 Mtrs	± 5% or 5	500 Mtrs. ±	5%		
	Current rating of cable under basic assumption		1	1 × ′						
11	Laid in Ground Temp 30°C	38	30	30	30	22	20	18	16	13
11	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 OI) .		in in	
12	Short circuit current carring capacity for duration			la .		0.288				
13	of 1Sec (In KA)									
14	Insulation resistance at 27°C (Mega Ohms / Kms.)					7 Mega Oh				
15	Reference of standard to which the drum conform					10418 (P-				
16	Reference of Licence to use ISI Certificate Mark.			CI	M/L-86675	04 Valid	up to 29.02	.2023		

For Pasondia Cables 23
Authorised Signal



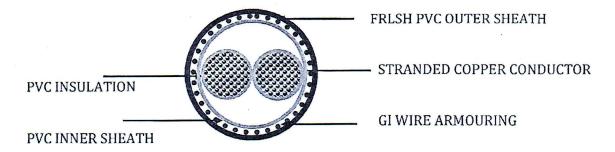
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as r _ pegification

0 1 SEP 2028

Electrical Superintending Engineer
(Planning and Engineering)
Bihar Stat - Power Transmission Company Limited
Vidyut Bhawan, Pana-By



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





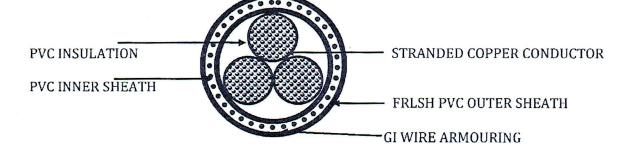
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Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as precification

Electrical Superintenting Engineer (Planning and Engineering) Bihar Stats Power Transmission Company Limited Vidyut Bhawan, Pathas 800001



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





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

Electrical Superintenting Engineer 0 1 SEP 2022

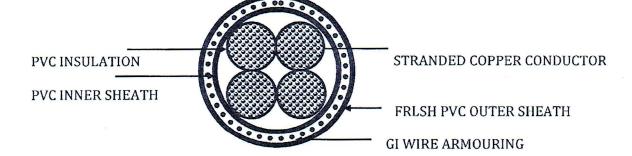
(Planning and Engineering)

Bihar State Power Transmission Company Limited Vidyut Bhawan, Palna-800021





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



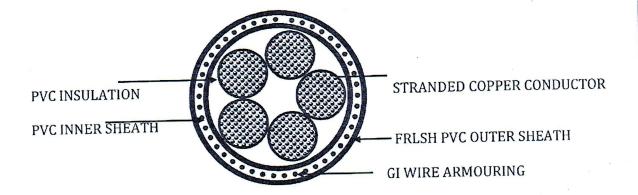


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Electrical Superintenting Engineer
(Planning and Engineering)
Binar State Power Transmission Company Limited
Vidyut Bhawan, Palna-800121



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





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

Electrical Superintenting Engineer 0 1 SEP WWW.

(Planning and Engineering)
(Planning and Engineering)

(Planning and Engineering)

Vidyut Bhawan, Patha-Grad



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

STRANDED **COPPER COUNDUCTOR**

FRLSH PVC OUTER SHEATH

GI WIRE ARMOURING

PVC INSULATION SHEATH

PVC INNER SHEATH

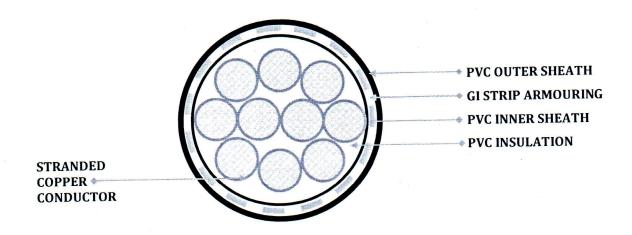
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Electrical Superintending Engineer (Planning and Engineering) or State Power Towns Piner State Power Transmission Company Limited Vidyut Bhawan, Paina-S





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





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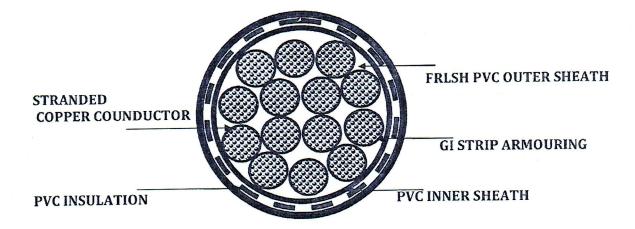
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Electrical Superintending Engineer
(Planning and Engineering)
Pitar Stata Power Transmission Company Limited
Vidyut Bhawan, Patna-80002

1 SEP 2022



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





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

Electrical Superintending Engineer 0 1 SEP 2022

(Planning and Engineering)

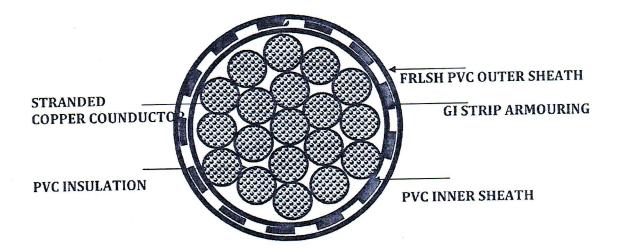
Shar State Power Transmission Company Limit

our State Power Transmission Company Li Vidyut Bhawan, Pakna





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



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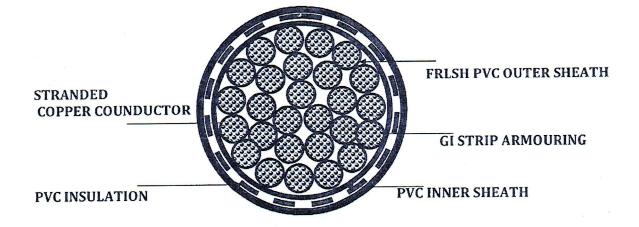
Electrical Superintending Engineer 1 SEP 2022
(Planning and Engineering) (Planning and Engineering) Bihar State Power Transmission Company Limited

Vidyut Bhawan, Pakna-8000

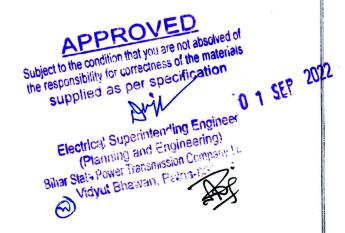




CONSTRUCTIONAL DRAWING OF 27Cx2.5 SQ.MM PVC INSULATED ARMOURED COPPER CONTROL CABLE AS PER IS:1554 PART-1/1988.







GTP For 1.1 KV PVC FRLSH Copper Control Cable								
T	PARTICULARS	Size of Cable in (Sqmm) 7Cx1.5 14Cx1.5						
	PARTICULAND	M/s Pasondia Cab	les Pvt. Ltd., Gha	ziabad (U.P.)				
	Name of Manufacturer	1.1 KV PVC FRLSH Control Cables, & Pasondia Cables						
,	Type & Make of cable	YWY/YFY						
	Cable Type	7Cx2.5	1,01/112	14Cx2.5				
	Type & Size (Sqmm)		1554 (P-I) 1988					
	Standard applicable		1100 Volts					
	Voltage Rating	Voltage	may very by ± 10	1%				
	Permissible Variation in Voltage & Frequency.	Frequency ± 5%						
		Sı	uitable for Both					
_	Suitable for earthed / unearthed System.	Plain annealed high	h conductivity cop	per conductor				
	DETAILS OF CONDUCTOR:	As p	er IS 8130 / 1984					
	Material Supply (Sq. mm)	1.5		1.5				
	Cross sectional area of conductor (Sq.mm)		ed Copper Conduc	ctor				
	Shape of Conductor	12.10		12.10				
	Max. DC resistance of conductor at 20°C in Ohm/ Km.	7		14				
	NUMBER OF CORE							
	DETAILS OF INSULATION	Туре	- A, of IS 5831/19	84				
	Type of Insulation		PVC Compound					
	Composition of Insulation Thickness of Insulation (mm)	0.90		0.90				
	Thickness of Insulation (IIIII) Tolerance of Thickness of insulation		0.1+0.1xt1 mm					
	Volume Resistivity in Ohm-cm (Min)							
		1x10 ¹³ Ohm cm						
	At 27°C.	1x10 ¹⁰ Ohm cm						
	At 70°C.		12.5 N/mm ²					
	Tensile Strength of Insulation Material (N/mm2)		150%					
-	Minimum Elongation Percentage							
	SHEATHING DETAILS							
	INNER SHEATH		PVC Type ST-1					
1	Material of Sheathing		Extruded					
	Type of Sheathing (Extruded or Wrapped)	0.30		0.30				
_	Thickness of Sheath (mm)							
	OUTER SHEATH	PV	C Type ST -2 FRLS	SH				
1	Material of Sheathing Type of Sheathing (Extruded or Wrapped)		Extruded					
		1.24		1.40				
	Nominal Thickness (mm)							
	ARMOURING	A	s per IS:3975/197	79				
	Armouring	14.00		19.00				
	Overall Diameter (Approx) Standard drum length of cable in Mtrs. To be supplied	1000 Mt	rs. ± 5% or 500 M	trs. ± 5%				
(Current rating of cable under basic assumption							
		14		11				
L	Laid in Ground Temp 30°C	13		. 10				
	Laid in Duct Temp 30°C	13		10				
	Laid in air Temp 40°C		12 x OD	AP				
1	Minimum Bending Radious Short circuit current carring capacity for duration		SI	AP				
1	Short circuit current carring capacity for duration of 1Sec (In KA)		0.288 th	2				
	4 Insulation resistance at 27°C (Mega Ohms / Kms.)	3	36.7 Mega Ohm - K IS 10418 (P-I) 198	msupplied				
-	5 Reference of standard to which the drum conform		15 10418 (P-1) 190)				
	Reference of Licence to use ISI Certificate Mark.	CM/L-866	67504 Valid up to	29.02.2023				

For Pasondia Cables Pvt. Ltd.

Authorised Signatory Nava Gan

1 SEP Cotrical Superintending Engineer (Planning and Engineering)

Vidyut Bhawan, Patna-8000



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

STRANDED COPPER COUNDUCTOR

FRLSH PVC OUTER SHEATH

GI WIRE ARMOURING

PVC INSULATION SHEATH

PVC INNER SHEATH

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)

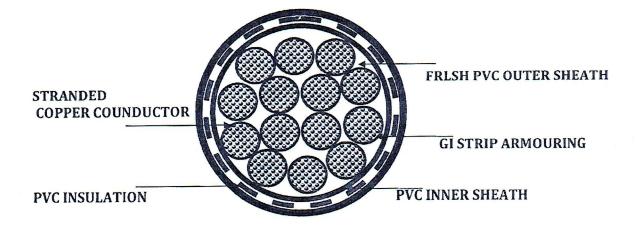
Bihar State Power Transmission Company Limited Vidyut Bhawan, Pelna-80003

0 1 SEP 2022





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





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

Supplied as per specification

Electrical Superintending Engineer

(Planting and Engineering)

(Planting and Engineering)

Sinar State Solver Transmission Company Lighted

Vidyul Bhawan, Pakna-83