



YATSA
CORPORATION

ELECTRIC CABLES
& BUILDING MATERIALS

48
YEARS

making connections
all around the Caribbean



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making connections
all around the Caribbean



Yatsa Corp. is a North American corporation that deals with import and export in general. Our main operations revolve around the distribution of a complete range of electrical cables for domestic, commercial and industrial uses & building materials.

The production plant we represent has a 48-year history of success. We and our cables have been making good connections all around the Caribbean.

As a manufacturer within CARICOM, we serve the region we intimately know and understand and share the economic edge this gives us. Our cables for industrial and domestic use cover a comprehensive range of building wires, low voltage power cables (PVC and XLPE) insulated and flexible cords.

All are approved by the Bureau of Standards Jamaica (BSJ) and fully comply with the appropriate British Standard (BS) and Underwriter Laboratories (UL) standard specifications. Our 68,000 square feet factory in Old Harbour, St. Catherine, Jamaica, is equipped for wire drawing, bunching, extrusion and reeling.

Our products are extremely profitable and have excellent product quality. Yatsa Corp. has a complete quality control system to monitor the stability of each production process. Therefore, the performance of Yatsa Corp. cable is excellent. Has no problems for long-term operation.



Our Vision

Consolidate our electric cables & Building materials line-up in the international market, continually evolving to generate a value offer to the client that adapts to their needs and demands; always ensuring diverse, quality products with a reliable supply.

Our Mission

To be a wholesale marketing corporation recognized for its seriousness, solvency and work ethic; offering differentiated products for their quality, accessible to the consumer and practical in their use.

Values

Excellence: For the professionals that make up our corporation, there is only one way to do things; And that way is to do them right, the first time and exceeding customer expectations.

Integrity: It is our duty to always do the right thing, guided by our ethical principles and working with honesty and loyalty towards the organization and within the highest level of respect towards ourselves, our colleagues and clients.

TEAMWORK

We contribute by developing a positive work environment based on mutual respect. We support and assist our colleagues when possible and share our knowledge. We believe that effective communication with our clients is crucial for the growth of our company.

RESULTS ORIENTATION

Our results-based attitude is reflected in our "I can do it" mentality. We are proactive, curious about our clients and markets and we work to find solutions. We set priorities and make clear decisions regarding our goals and our customers' requirements.

SOCIAL RESPONSIBILITY

Our way of doing business is based on a win-win relationship with our stakeholders; contributing to the social and economic development of the communities, preserving the environment and the sustainability of future generations.



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BUILDING WIRES

I. Bare Cooper Conductor (Cable de cobre desnudo):

APPLICATION:

- For grounding electrical systems where high conductivity and flexibility is required.
- Soft-drawn solid or stranded conductors, for use as grounding connections in circuits, and grounding for machinery or equipment.
- Hard-drawn conductors for overhead transmission and distribution lines, as grounding connections in circuits, and grounding for machinery or equipment
- Electrical appliances (oven, cooker, boiler burner, piezo electric system).
- Automotive (engine sensors, ignition circuit).
- Any other applications in aggressive environments (chemical atmospheres, very high or cold temperatures).



Table 1

Bare annealed copper conductor. Construction of Annealed Copper Conductor of cable for fixed installation (BAS).

SIZE MM. SQ	CONDR. FORM.		CONDR. DIAMETER	CONDR. WEIGHT	CONDUCTOR RESISTANCE
	NO. OF WIRE	WIRES SIZE MM	MM	(NOM.) WM	20 DEGREE/C MEGOHNVKM.
2.5	7	0.67	2.01	21.7	7.27
4	7	0.85	2.55	34.95	4.52
6	7	1.04	3.12	52.3	3.02
10	7	1.35	4.05	88.05	1.79
16	7	1.75	4.85	139.5	1.13
25	7	2.2	6.1	220	0.712
35	7	2.6	7.2	305	0.514
50	19	1.85	8.2	413	0.379
70	19	2.2	9.8	596	0.262
95	19	2.6	11.55	826	0.189
120	36	2.1	13	1045	0.15
150	36	2.33	14.4	1283	0.122
185	36	2.6	16.15	1611	0.0972
240	60	2.33	18.6	2116	0.074
300	59	2.6	20.85	2656	0.059
400	60	2.88	23.75	3383	0.04377
500	60	3.28	27.25	4332	0.03472

6491X:

II. Insulated Cooper Conductor (Cable de cobre aislado):

APPLICATION:

- Smooth electrolytic copper conductor insulated with PVC 90°C and Nylon. Resistant to abrasion, and to substances such as oils, greases, gasoline or other corrosive substances such as paints and solvents. PVC insulation with flame retardant, free of heavy metals.
- Construction cables used in power and lighting circuits in industrial, commercial and residential buildings, are especially suitable for installations in ducts or abrasive areas. It can be used in dry places at 90°C operating temperature and in humid places at 75°C operation.



Table 2

- Single core PVC insulated wire for conduit installation. Red, Yellow, Blue, Black, Green/Yellow, White, Brown. Stranded copper conductor, PVC insulated, PVC insulated BS6004 - JS94. Voltage rating 450/750V. Identification - Product identification and legend are printed on outer sheath.

SIZE MM. SQ	CONDR. FORM.		INSULATION		CABLE WEIGHT KG/KM	CONDUCTOR AMP. IAMB. TEMP. 300C		VOLTAGE DROP PER AMP PER METER MV
	NO. OF WIRE	WIRES SIZE MM	THICK (AVE.) MM	DIA. (MAX.) MM		SINGLE PHASE (TWO WIRES) BUNCHED AND ENCLOSED IN CONDUIT	THREE PHASE (TWO WIRES)	
1.5	7	0.53	0.7	3.5	21.2	17.5	15.5	29
2.5	7	0.67	0.8	4.2	35.2	24	21	18
4	7	0.85	0.8	4.8	51.6	32	28	11
6	7	1.04	0.8	5.4	72.4	41	36	7.3
10	7	1.35	1	6.8	120.6	57	50	4.4
16	7	1.75	1	8	173.6	76	68	2.9
25	7	2.2	1.2	9.8	272.5	101	89	1
35	7	2.6	1.2	11	366	125	110	1.35
50	19	1.85	1.4	13	494.3	151	134	1
70	19	2.2	1.4	15	694.2	192	171	0.69
95	19	2.6	1.6	17	958.9	232	207	0.52
120	36	2	1.6	19	1193.4	269	239	0.92
150	36	2.33	1.8	21	1469.7	300	262	0.35
185	36	2.6	2	23.5	1842.5	341	296	0.29
240	60	2.33	2.2	26.5	2406	400	346	0.24
300	59	2.6	2.4	29.5	3020	458	394	0.21
400	60	2.88	2.6	33.5	3832	-	-	-
500	60	3.28	2.8	37	4812	-	-	-

Non-sheathed. Not suitable for conduits buried underground.

6181Y

III. Insulated and Sheathed Cooper Conductor (Cable de alimentación de cobre aislado y enfundado):

Table 3

Single insulated core, White sheathed, overall circular. For surface installation. Voltage rating 300/500V. Stranded copper conductor, PVC insulated and sheathed

SIZE MM. SQ	CONDR.	FORM.	INSULATION		LAID UP	BEDDING	SHEATH		CABLE WEIGHT	CONDUCTOR AMP.	AMB. TEMP. 30 °C
	NO. OF WIRES	WIRE SIZE MM	THICK (AVE.) MM	C C F E E E E	DIA. (MIN.) MM	DIA. (MIN.) MM	THICK (AVE.) MM	DIA, (MIN.)	KG/KM	BUN, AND ENCLOSED IN CONDUIT OR TRUNK AMPS	CLIPPED DIRECT TO A SURFACE AMPS
1.5	7	0.53	0.70	3.06	5.94	6.94	1.20	9.14	86	15	19.5
2.5	7	0.67	0.80	3.69	7.38	8.18	1.20	10.58	124	21	27
4.0	7	0.85	0.80	4.22	8.44	9.24	1.20	11.64	176	28	36
6.0	7	1.04	0.80	4.79	9.58	10.38	1.20	12.78	237	35	46
10.0	7	1.35	1.00	6.15	12.30	13.50	1.40	16.30	375	48	63

When sheathed Black, the reference for the above cable is 6181X.

6182Y

Insulated and Sheathed Copper Conductor

Table 4

Two insulated cores, Blue & Brown, bedded Black, White, Grey or Black sheathed, overall circular. Voltage rating 300/500V. Stranded copper conductor, PVC insulated and sheathed.

Identification - Product identification and legend are printed on outer sheath.

SIZE MM. SQ	CONDR.	FORM.	INSULATION		LAID UP	BEDDING	SHEATH		CABLE	CONDUCTOR AMP. AMB. TEMP. 30 °C	
	NO. OF WIRES	WIRE SIZE MM	THICK (AVE.) MM	DIA. (MIN.) MM	DIA. (MIN.) MM	DIA. (MIN.) MM	THICK (AVE.) MM	DIA. (MIN.)	WEIGHT	BUN. AND ENCLOSED IN CONDUIT OR TRUNK AMPS	CLIPPED DIRECT TO A SURFACE AMPS
2.				3.	6.	7.	1.20	9.			
3.	7	0.67	0.80	4.	7.	8.	1.20	11.	kg/km	21	27
4.0	7	0.85	0.80	4.	8.	9.	1.20	12.	176	28	36
6.0	7	1.	0.80	5.	10.	10.	1.20	13.	237	35	46
10.0	7	1.	1.00	6.	12.30	13.50	1.40	16.30	375	48	63

6192Y

Insulated and Sheathed Copper Conductor

Table 5

Twin Flat insulated cores, Blue and Brown, White sheathed overall flat. For surface insulation. Voltage rating 300/500V. Stranded copper conductor PVC Insulated and sheathed.

Identification - Product identification and legend are printed on outer sheath.

SIZE MM. SQ	CONDR. FORM.		INSULATION		SHEATH		CABLE WEIGHT KG/KM	CONDUCTOR AMP. (AMB. TEMP. 30 °C)		
	NO. OF WIRES	WIRE SIZE MM	THICK (AVE.) MM	DIA (MAX.) MM	THICK (AVE.) MM	DIA (MAX.) MM		BUNCHED IN CONDUIT SINGLE PHASE AMPS	CLIPPED DIRECT SINGLE PHASE AMPS	ON PERT. CABLE TRAY SINGLE PHASE AMPS
1.5	7	0.53	0.7	3.06	0.944	5.4/8.4	78	16.5	19.5	22
2.5	7	0.67	0.8	3.69	1	6.2/9.8	112	23	27	30
4	7	0.85	0.8	4.22	1	7.2/11.5	150	30	36	40
6	7	1.04	0.8	4.79	1.1	8.0/13.0	204	38	46	51
10	7	1.35	1	6.15	1.2	9.6/16.0	325	52	63	70
16	7	1.75	1	6.95	1.2	11.0/18.5	469	69	85	94

6193Y

Table 6

Three core flat insulated, Brown, Grey and Blue, White sheathed overall flat. For surface installation. Stranded conductor. PVC Insulated and sheathed.

Identification - Product identification and legend are printed on outer sheath.

SIZE MM. SQ	CONDR. FORM.		INSULATION		SHEATH		CABLE WEIGHT KG/KM	CONDUCTOR AMP. (AMB. TEMP. 30 °C)		
	NO. OF WIRES	WIRE SIZE MM	THICK (AVE.) MM	DIA (MAX.) MM	THICK (AVE.) MM	DIA (MAX.) MM		BUNCHED IN CONDUIT SINGLE PHASE AMPS	CLIPPED DIRECT SINGLE PHASE AMPS	ON PERT. CABLE TRAY SINGLE PHASE AMPS
1.5	7	0.53	0.7	3.06	0.9	5.4/11.5	105	15	17.5	18.5
2.5	7	0.67	0.8	3.69	1	6.2/13.5	155	20	24	25
4	7	0.85	0.8	4.22	1	7.4/16.5	230	27	32	34
6	7	1.04	0.8	4.79	1.1	8.0/18.0	300	34	41	43
10	7	1.35	1	6.15	1.2	9.6/22.5	480	46	57	60
16	7	1.75	1	6.95	1.3	11.0/26.5	670	62	76	80

6242Y

Table 7

Twin and earth insulated cores, Blue and Brown with circuit Protective Conductor (CPC), White sheathed, overall flat. For surface installation. Voltage 300/500V. Stranded copper conductor. PVC Insulated and sheathed.

Identification - Product identification and legend are printed on outer sheath.

SIZE MM. SQ	CONDR.	FORM.	INSULATION		CPC (MMSQ) MM	SHEATH		CABLE WEIGHT KG/KM	CONDUCTOR AMP. IAMB. TEMP. 30 °C		
	NO. OF WIRES	WIRE SIZE MM	THICK (AVE.) MM	DIA. (MIN.) MM		THICK (AVE.) MM	DIA. (MIN.) MM		BUN. IN CONDUIT AMPS	CLIPPED DIRECT AMPS	ON PERT. CABLE TRAP AMPS
1.5	7	0.53	0.7	3.06	1.13	0.9	5.4/9.6	89	15	17.5	18.5
2.5	7	0.67	0.8	3.69	1.38	1	6.2/11.5	137	20	24	25
4	7	0.85	0.8	4.22	1.38	1.1	7.2/13.0	177	27	32	34
6	7	1.04	0.8	4.79	1.78	1.1	8.0/15.0	244	34	41	43
10	7	1.35	1	6.15	4.0*	1.2	9.6/19.0	408	46	57	60
16	7	1.75	1	6.95	6.0*	1.3	11.0/22.5	552	62	76	80

6243Y

Table 8

Three core and earth insulated, Brown, Grey and Blue, with bare Circuit Protective Conductor (CPC), White sheathed, overall flat. For surface installation. Voltage rating 300/500V. Stranded copper conductor PVC insulated and sheathed.

Identification - Product identification and legend are printed on outer sheath.

SIZE MM. SQ	CONDR.	FORM.	INSULATION		CPC (MMSQ) MM	SHEATH		CABLE WEIGHT KG/KM	CONDUCTOR AMP. IAMB. TEMP. 30 °C		
	NO. OF WIRES	WIRE SIZE MM	THICK (AVE.) MM	DIA. (MIN.) MM		THICK (AVE.) MM	DIA. (MIN.) MM		BUN. IN CONDUIT AMPS	CLIPPED DIRECT AMPS	ON PERT. CABLE TRAP AMPS
1.5	7	0.53	0.7	3.06	1.13	0.9	5.0/12.5	123	15	17.5	18.5
2.5	7	0.67	0.8	3.69	1.38	1	6.2/14.5	185	20	24	25
4	7	0.85	0.8	4.22	1.38	1.1	7.2/18.0	249	27	32	34
6	7	1.04	0.8	4.79	1.78	1.1	8.0/20.0	342	34	41	43
10	7	1.35	1	6.15	4.0*	1.2	9.6/25.5	567	46	57	60
16	7	1.75	1	6.95	6.0*	1.3	11.0/29.5	774	62	76	80

POWER & CONTROL CABLES

Application:

- Designed for use in mains supply electricity. These cables are provided with mechanical protection are therefore suitable for external use and direct burial.
- Steel Wire Armoured cables are predominantly used for industrial wiring and mains distribution. They are designed to be used in industrial areas, in and around buildings and other similar environments. These cables are designed to be installed in air, clipped to surface, on cable tray/ladder work, embedded in concrete and buried direct or in ducting underground.

6942X

Table 9

Three core and earth insulated, Brown, Grey and Blue, with bare Circuit Protective Conductor (CPC), White sheathed, overall flat. For surface installation. Voltage rating 300/500V. Stranded copper conductor PVC insulated and sheathed.

Identification - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA. OVER LAID UP CORES	ARMOURING			SHEATH-ING	CABLE WEIGHT	CURRENT RATING		
	MM SQ	NO. OF WIRES		WIRE SIZE MM	GM		AVG. THKNS. MM	DIAM. MM	MM			WIRE SIZE MM	NO. OF WIRES	DIAM. MM
1.5	7	0.53	13.65	0.7	3.06	6.12	0.90	27	9.52	12.3	290	22	26	32
2.5	7	0.67	21.8	0.8	3.69	7.38	0.90	31	10.78	13.6	356	31	34	41
4	7	0.85	34.95	0.8	4.22	8.44	0.90	36	11.84	15.1	438	41	45	55
6	7	1.04	52.3	0.8	4.79	9.58	0.90	39	12.98	16.5	524	53	57	69
10	7	1.35	88.05	1	6.15	12.3	1.25	35	16.4	20.1	840	72	76	92
16	7	1.75	139.5	1	6.95	-	-	-	-	21.9	990	97	98	119
25	7	2.2	220	1.2	-	13.3	1.6	29	18.1	22.6	1266	128	129	158
35	7	2.6	305	1.2	-	14.88	1.6	32	19.68	29	1527	157	154	190
50	19	1.85	413	1.4	-	17.36	1.6	36	22.16	27.4	1958	190	183	225
70	19	2.2	596	1.4	-	19.56	1.6	40	24.36	30	2439	241	225	277
95	19	2.6	826	1.6	-	23.04	2	37	28.64	34.7	3406	291	271	332

Sizes 1.5mm² to 10.0mm² are extruded bedded, and sizes 1.5mm² to 16mm² are circular stranded. Conductors of 25.0mm sq. and above are shaped stranded conductors.

6943X: **Table 10**

Three stranded copper conductor. PVC insulated cores. Brown, Grey and Blue, laid up and tape bedded, steel wire armoured, PVC Sheathed. Voltage rating 600/1000V. BS6346 - J593. For power supply indoor, outdoor or underground.

Identification - Product identification and legend are printed on outer sheath.

SIZE	CONDR. FORM.		CONDR. WEIGHT (NOM) G/M	INSULATION THICKNESS (AVE.) MM	DIA OVER LAID UP CORES (MIN.) MM	ARMOURING			SHEATHING DIA. (MAX.) MM	CABLE WEIGHT KG/KM	CURRENT RATING		
	MM SQ	NO. OF WIRES				WIRE SIZE MM	NO. OF WIRE MM	WIRE SIZE MM			DIA. (NOM.) MM	LAI D DIRECT IN GROUND AMPS.	IN SINGLE WAY DUCT AMPS.
1.5	7	0.53	13.75	0.7	6.41	29	0.9	9.81	12.8	334	27	22	19
2.5	7	0.67	21.7	0.8	7.97	34	0.9	11.37	14.1	413	35	29	26
4	7	0.85	34.95	0.8	9.12	38	0.9	12.52	15.8	520	47	38	35
6	7	1.04	52.3	0.8	10.35	31	1.25	14.45	18	736	59	48	45
10	7	1.35	88.05	1	13.28	38	1.25	17.39	21.2	1022	78	64	62
16	7	1.75	139.5	1	-	35	1.25	-	23.1	1078	101	83	83
25	7	2.2	220	1.2	18.1	35	1.6	21.3	27.8	1623	132	107	110
35	7	2.6	305	1.2	20.2	39	1.6	25	30.6	1988	159	129	135
50	19	1.85	413	1.4	22.8	44	1.6	26	30.1	2525	188	153	163
70	19	2.2	596	1.4	25.7	39	2	29.7	34.2	3522	233	190	207
95	19	2.6	826	1.6	29.9	45	2	33.9	38.5	4548	279	228	257
120	36	2.1	1045	1.6	32.4	49	2	36.4	4.4	5409	317	260	290
150	36	2.33	1283	1.8	36.15	44	2.5	41.15	46.3	6843	355	292	322
185	36	2.6	1611	2	40.2	48	2.5	45.24	50.7	8318	401	331	378
240	60	2.33	2116	2.2	45.22	54	2.5	50.22	56.2	1048	462	382	445
300	59	2.6	2656	2.4	50.1	60	2.5	55.1	61.6	12579	517	428	510
400	60	2.88	3383	2.6	63.8	55	3.15	68.8	68	15482	580	490	590

Sizes 1.5mm² to 10mm² are extruded bedded. Conductors of 25mm² and above are shaped conductors.

6944X:

Table 11

Four stranded copper conductor. PVC insulated cores. Brown, Grey, Blue and Black, laid up and tape bedded, steel wire armoured. PVC Sheathed. Voltage rating 600/1000V. BS6346 - JS93. For power supply indoor, outdoor and underground.

Identification - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA OVER LAID UP CORES	ARMOURING			SHEATHING	CABLE WEIGHT	CURRENT RATING		
	MM SQ	NO. OF WIRES		WIRE SIZE MM	G/M		AVERAGE MM	DIAMETER MM	MM			WIRE SIZE MM	NO. OF WIRES	DIAM. MM
1.50	7	0.53	13.75	0.70	3.06	7.19	0.90	31	10.59	13.50	376	19	22	27
2.50	7	0.67	21.70	0.80	3.69	8.93	0.90	37	12.33	15.00	470	26	29	35
4.00	7	0.85	34.95	0.80	4.22	10.21	1.25	31	14.31	17.80	709	35	38	47
6.00	7	1.04	52.30	0.80	4.79	11.59	1.25	34	15.69	19.20	850	45	48	59
10.00	7	1.35	88.05	1.00	6.15	14.88	1.25	41	18.98	22.80	1196	62	64	78
16.00	7	1.75	139.50	1.00	6.95	16.80	1.60	34	20.00	25.90	1433	83	83	101
25.00	7	2.20	220.00	1.20	-	20.60	1.60	37	23.40	30.30	1986	110	107	132
35.00	7	2.60	305.00	1.20	-	22.60	1.60	43	25.80	33.50	2471	135	129	159
50.00	19	1.85	413.00	1.40	-	26.20	2.00	39	30.20	34.60	3367	163	153	188
70.00	19	2.20	596.00	1.40	-	29.70	2.00	45	33.70	38.40	4346	207	190	233
95.00	19	2.60	826.00	1.60	-	34.50	2.00	50	38.50	43.50	5705	251	228	276
120.00	36	2.10	1045.00	1.60	-	37.70	2.50	44	42.70	48.10	7242	290	260	317
150.00	36	2.33	1283.00	1.80	-	41.70	2.50	49	46.70	52.40	8687	332	292	355
185.00	36	2.60	1611.00	2.00	-	46.20	2.50	54	51.20	57.40	10581	378	331	401
240.00	59	2.33	2116.00	2.20	-	52.20	2.50	61	57.20	64.10	13638	445	382	462
300.00	59	2.60	2656.00	2.40	-	58.20	2.50	67	63.20	70.40	16280	510	428	517
400.00	61	2.88	3383.00	2.60	-	64.00	3.15	42	71.90	79.30	20785	590	490	580

694(3½) X

Table 12

Four core with reduced, neutral stranded copper conductor. PVC insulated laid up and tape bedded, steel wire armoured, PVC sheathed. Voltage rating 600/1000V. BS6346 - JS93. Main cores Brown, Grey and Blue, reduced neutral Black. For power supply indoor, outdoor and underground.

Identification - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION				CONDUCTOR WEIGHT		INSULATION THICKNESS		DIA OVER LAID UP CORES	ARMOURING			SHEATHING	CABLE WEIGHT	CURRENT RATING		
		(PHASE)		(NEUTRAL)														
(PHASE) MM SQ	(NEUTRAL) MM SQ	NO. OF WIRES	WIRE SIZE MM	NO. OF WIRES	WIRE SIZE MM	(PHASE) KG/KM	(NEUTRAL) KG/KM	(PHASE) MM	(NEUTRAL) MM	MM	WIRE SIZE MM	NO. OF WIRES	DIAM. MM	DIAMETER (MAX.) KG/KM	MM	IN AIR AMPS	IN DUCT AMPS	IN GROUND AMPS
25.0	16.0	7	2.20	7	1.75	220.0	139.5	1.20	1.00	19.60	1.60	38	22.80	29.3	1909	110	107	132
35.0	16.0	7	2.60	7	1.75	305.0	139.5	1.20	1.00	21.80	1.60	44	25.00	31.7	2321	135	129	159
50.0	25.0	19	1.85	7	1.75	413.0	220.0	1.40	1.20	25.20	1.60	48	28.40	32.7	3179	163	153	188
70.0	35.0	19	2.20	7	2.60	596.0	305.0	1.40	1.20	28.50	2.00	44	32.50	37.2	4055	207	190	233
95.0	50.0	19	2.60	19	1.85	826.0	413.0	1.60	1.40	32.90	2.00	49	36.90	42.9	5447	251	228	276
120.0	70.0	36	2.10	19	2.20	1045.0	596.0	1.60	1.40	36.50	2.00	44	41.50	47.8	6806	290	260	317
150.0	70.0	36	2.33	19	2.20	1283.0	596.0	1.80	1.40	40.70	2.50	48	45.70	50.8	7441	332	292	355
185.0	95.0	36	2.60	19	2.60	1611.0	826.0	2.00	1.60	44.20	2.50	55	49.20	56.0	9740	378	331	401
240.0	120.0	59	2.33	36	1.20	2116.0	1045.0	2.20	1.60	51.00	2.50	61	56.00	62.1	12134	445	380	462
300.0	150.0	59	2.60	36	2.33	2656.0	1283.0	2.40	1.80	55.80	2.50	68	60.80	68.2	14646	510	428	517
400.0	185.0	61	2.88	36	2.60	3383.0	1611.0	2.60	2.00	65.60	3.15	55	71.90	76.6	18835	590	490	580

694(7)X

Table 13

Seven core circular stranded copper conductor. PVC insulated cores. White numbered 1-7 laid up and extruded bedded, steel wire armoured, PVC sheathed. Voltage rating 600/100V. BS6346 - JS93. Auxiliary power cable. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA. OVER LAID UP CORES	ARMOURING			SHEATHING	CABLE WEIGHT	CURRENT RESISTANCE
	MMSQ	NO. OF WIRES		WIRE SIZE MM	KCI/HM		AVG. THKNS. MM	DIAM. MM	MM			
1.5	7	0.53	13.75	0.7	3.06	7.95	0.9	34	15.2	14.15	470	12.1
2.5	7	0.67	21.7	0.8	3.69	10.44	1.25	32	18	16.84	729	7.41
4	7	0.85	34.95	0.8	4.22	12.66	1.25	33	20.5	19.69	940	4.61

694(12)X

Table 14

Twelve core circular stranded copper conductor. PVC insulated cores. White numbered 1-12 laid up and extruded bedded, steel wire armoured, PVC sheathed. Voltage rating 600/1000V. BS6346 - JS93. Auxiliary power cable. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA. OVER LAID UP CORES	ARMOURING			SHEATHING	CABLE WEIGHT	CURRENT RESISTANCE
	MM SE	NO. OF WIRES		WIRE SIZE MM	KG/KM		AVG. THKNS. MM	DIAM. MM	MM			
1.5	7	0.53	13.75	0.7	3.06	11.2	1.25	39	15.2	19.4	784	12.1
2.5	7	0.67	21.7	0.8	3.69	15.5	1.25	42	19.45	22.4	1049	7.41
4	7	0.85	34.95	0.8	4.22	17.56	1.6	37	22.76	26.8	1560	4.61

694(19)X

Table 15

Nineteen core circular stranded copper conductor. PVC insulated cores. White numbered 1-19 laid up and extruded bedded, steel wire armoured, PVC sheathed. Voltage rating 600/1000V. BS6346 - JS93. Auxiliary power cable. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF ONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA. OVER LAID UP CORES	ARMOURING			SHEATHING	CABLE WEIGHT	CONDUCTOR RESISTANCE
	MM S9	NO. OF WIRES		WIRE SIZE MM	KG/KM		AVG. THKNS. MM	DIAM. MM	MM			
1.5	7	0.53	13.75	0.7	3.06	13.25	1.25	38	17.35	22.2	1023	12.1
2.5	7	0.67	21.7	0.8	3.69	18.45	1.6	38	23.65	26.6	1584	7.41
4	7	0.85	34.95	0.8	4.22	21.1	1.6	44	26.6	30.5	2080	4.61

694(27)X

Table 16

Twenty-seven core circular stranded copper conductor. PVC insulated cores. White numbered 1-27 laid up and extruded bedded, steel wire armoured, PVC sheathed. Voltage rating 600/1000V. BS6346-JS93. Auxiliary power cable. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA. OVER LAID UP COCOS	ARMOURING			SHEATHING	CO* WEIGHT	CURRENT RESIST...
	MM SE	NO. OF WIRES		WIRE SIZE MM	KG/KM		AVG. THKNS. MM	DIAM MM	MM			
1.5	7	0.53	13.75	0.7	3.06	16.32	1.6	35	21.52	26.7	1506	12.1
2.5	7	0.67	21.7	0.8	3.69	21.42	1.6	43	26.62	30.7	2043	7.41

694(37)X

Table 17

Thirty-seven core circular stranded copper conductor. PVC insulated SWA/PVC power cables & cores. White numbered 1-37, laid up and extruded bedded, steel wire armoured, PVC sheathed. Voltage rating 600/1000V. BS6346 - JS93. Auxiliary power cable.

Identification - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION		DIA. OVER LAID UP CORES	ARMOURING			SHEATHING	CABLE WEIGHT	CURRENT RESISTANCE
	MM SQ	NO. OF WIRES		WIRE SIZE MM	KG/KM		AVG. THKNS. MM	DIAM MM	MM			
1.5	7	0.53	13.75	0.7	3.06	18.55	1.6	39	23.75	29.2	1834	12.1
2.5	7	0.67	21.7	0.8	3.69	24.36	1.6	47	29.56	34	2360	7.41

XLPE ARMoured & UNARMoured CABLES

Application:

These cables are designed for general use, including underground burial, where they are not likely to suffer mechanical damage. They have a molecular structure that allows them to bond with a strong resistance to deformation even at high temperature.

An important advantage of the insulation for medium and high voltage cables is its low dielectric loss. The dielectric loss factor is approximately one decimal power less than that of paper insulated cables and approximately two decimal powers less than that of PVC insulated cables.

6981G

Table 18

Single core, stranded circular copper conductor, XLPE insulated, PVC sheath. Voltage rating 600/1000V. BS5467. Unarmoured cable.

Identification - Product identification and legend are printed on the outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION	BEDDING	SHEATHING		CABLE WEIGHT	CURRENT RATING	VOLTAGE DROP PER AMP PER METER MV
	MM SQ	NO. OF WIRES				WIRE SIZE MM	KG/KM			
50	19	1.85	413	1	13.6	1.4	14.2	540	225	1
70	19	2.2	596	1.1	15.6	1.4	16.2	750	289	0.73
95	19	2.6	826	1.1	17.5	1.5	18.3	1010	352	0.56
120	36	2.1	1045	1.2	19.2	1.5	20.2	1250	410	0.47
150	36	2.33	1283	1.4	21.3	1.6	22.4	1530	473	0.41
185	36	2.6	1611	1.6	23.4	1.6	24.7	1900	542	0.36
240	60	2.33	2116	1.7	26.3	1.7	27.7	2470	641	0.31
300	59	2.6	2656	1.8	29	1.8	30.6	3080	741	0.29
400	60	2.88	3383	2	32.7	1.9	34.2	3890	865	0.27

6942G

Table 19

Two core, shape stranded copper conductor, XLPE insulated. Brown and Blue laid up and tape bedded, steel wire armoured, PVC sheathed. Voltage rating 600/1000V. BS5467. For power supply indoor, outdoor and underground. Unarmoured cable.

Identification - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION	BEDDING	ARMOURING	SHEATHING	CABLE WEIGHT	CURRENT RATING		
	MM SCL	NO. OF WIRES							WIRE SIZE MM	KG/KM	AVERAGE THICKNESS MM
6	7	1.35	88.05	0.7	0.8	0.9	15.9	498	57	81	67
10	7	1.35	88.05	0.7	0.8	0.9	18	764	80	109	89
16	7	1.75	139.5	0.7	0.8	1.25	20	-	110	141	115
25	7	2.2	220	0.9	0.8	1.25	20.4	-	-	-	-
35	7	2.6	305	0.9	1	1.6	23.4	-	-	-	-

6943G

Table 20

Three core, stranded copper conductor, XLPE insulated, Brown, Grey and Blue laid up and taped bedding, steel wire armoured, PVC sheathed. Voltage rating 600/1000V, BS5467. For power supply indoor, outdoor and underground.

Identification - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION	DIA OVER LAID UP CORES	ARMOURING	SHEATHING	CABLE WEIGHT	CURRENT RATING		
	MM SQ	NO. OF WIRES							WIRE SIZE MM	KG/KM	AVERAGE THICKNESS MM
6	7	1.04	52.3	0.7	0.8	0.9	16.6	689	51	56	69
10	7	0.35	88.05	0.7	0.8	1.25	19.5	9.8	70	75	92
16	7	1.75	139.5	0.7	16.1	1.25	21.8	1070	99	96	119
25	7	2.2	220	0.9	20.3	1.6	26.9	1550	131	124	152
35	7	2.6	305	0.9	22.8	1.6	29.6	1940	162	149	182
50	19	1.85	413	1	21.6	1.6	28.4	2360	197	177	217
70	19	2.2	596	1.1	25	1.6	32	3120	251	208	266
95	19	2.6	826	1.1	28.5	2	36.7	4310	304	263	319
120	36	2.10	1045	1.2	31.6	2	40	5160	353	300	333
150	36	2.33	1283	1.4	35.5	2.5	45.1	6610	406	338	406
185	36	2.6	1611	1.6	39.5	2.5	49.3	7920	465	382	458
240	60	2.33	2116	1.7	44.3	2.5	54.5	9930	546	442	529
300	59	2.6	2656	1.8	49.1	2.5	59.5	11970	628	486	592
400	60	2.88	2283	2	55	2.5	65.8	14470	740	570	667

6944G

Table 21

Four core, shaped stranded copper conductor, XLPE insulated. Brown, Grey, Blue and Black laid up and taped bed-ded, steel wire armoured, PVC sheathed. voltage rating 600/1000V, BS5467. For power supply indoor, outdoor and underground, **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		CONDUCTOR WEIGHT	INSULATION	BEDDING	ARMOURING	SHEATHING	CABLE WEIGHT	CURRENT RATING		
	MM SQ	NO. OF WIRES							WIRE SIZE MM	KG/KM	AVERAGE THICKNESS MM
6	7	1,04	52.3	0.7	0.8	0.9	18.7	795	-	56	69
10	7	0.35	88.05	0.7	0.8	1.25	21.1	10.64	-	75	92
16	7	1.75	139.5	0.7	1	1.25	22.9	1300	99	96	119
25	7	2.2	220	0.9	1	1.6	25.7	1880	131	124	152
35	7	2.6	305	0.9	1	1.6	28.4	2350	162	149	182
50	19	1.85	413	1	1	1.6	31.6	2950	197	177	217
70	19	2.2	596	1.1	1.2	2	36.9	4230	251	208	266
95	19	2.6	826	1.1	1.2	2	40.9	5390	304	263	319
120	36	2.1	1045	1.2	1.2	2.5	45.9	6980	353	300	333
150	36	2.33	1283	1.4	1.2	2.5	50.2	8300	406	338	406
185	36	2.6	1611	1.6	1.2	2.5	55.4	10070	465	382	458
240	60	2.33	2116	1.7	1.2	2.5	61.4	12680	546	442	529
300	59	2.6	2656	1.8	1.2	2.5	67.2	15380	628	486	592
400	60	2.88	3383	2	1.2	3.15	76.1	19950	740	570	667

Cables from 1.5mm' to 10.0mm2 are all extruded bedded.

694(3½)G

Table 22

Three core with reduced, neutral shaped stranded copper conductor, XLPE insulated. Brown, Grey, Blue and Black laid up and taped bedded, steel wire armoured, PVC sheathed. voltage rating 600/1000V. BS5467. for power supply indoor, outdoor and underground. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION				CONDUCTOR WEIGHT		INSULATION THICKNESS		DIA OVER LAID UP CORES	ARMOUR-ING	SHEATH- ING	CABLE WEIGHT	CURRENT RATING		
(PHASE) MM SQ	(NEUTRAL) MM SQ	NO. OF WIRES	WIRE SIZE MM	NO. OF WIRES	WIRES SIZE MM	PHASE KG/KM	NEUTRAL KG/ KM	PHASE MM	NEUTRAL MM	MM	WIRE SIZE MM	DIAMETER MM	MM	IN AIR AMPS	IN DUCT AMPS	IN GROUND AMPS
25	16	7	2.2	7	1.75	220	139.5	0.9	0.7	-	1.6	25.7	1880	131	124	152
35	16	7	2.6	7	1.75	305	139.5	0.9	0.7	-	1.6	27.6	2350	162	149	182
50	25	19	1.85	7	2.2	413	220	1	0.9	24.3	1.6	30.8	2950	197	177	217
70	35	19	2.2	7	2.6	596	305	1.1	0.9	28.6	2	35.8	4230	251	208	266
95	50	19	2.6	19	1.85	826	413	1.1	1	32.2	2	40.2	5390	304	263	319
120	70	36	2.1	19	2.2	1045	596	1.2	1.1	36.2	2	44.5	6980	353	300	222
150	70	36	2.33	19	2.2	1283	596	1.4	1.1	40.1	2.5	48.5	8300	406	338	406
185	95	36	2.6	19	2.6	1611	826	1.6	1.1	44.7	2.5	54.1	10070	465	382	458
240	120	60	2.33	36	2.1	2116	1045	1.7	1.2	50.6	2.5	59.4	12680	546	442	529
300	150	59	2.6	36	2.33	2656	1283	1.8	1.4	55.7	2.5	65.1	15380	628	486	592
400	185	60	2.88	36	2.6	3383	1611	2	1.6	62.7	2.5	72.2	19950	740	570	667

PVC FLEXIBLE CORD

Application:

- As PVC is a thermoplastic polymer, PVC properties make it suitable for applications where the cables may be exposed to high or low temperatures (including use of arctic-grade PVC for extreme low conditions), or where protection against UV light is required to avoid degradation. PVC insulation is frequently used owing to its good insulating properties but low corona resistance and is best suited for low and medium voltage cables and low frequency insulation requirements.
- The benefits of PVC as cable insulation and sheathing material include its chemical stability, robustness and durability.

694(3½)G

Table 23

PVC Industrial Flexible Cables

PVC flexible cables have a variety of industrial applications. **Single core unsheathed** types are designed for use as general purpose wiring. **Multicore sheathed** types can operate power supply or extension leads to lighting or mobile equipment. Single and multicore bunched circular copper conductor, PVC insulated and sheathed.

REF NO. NO. OF CORES	6381Y 1		6382Y 2		6383Y 3		6384Y 4		CURRENT RATINGS 600/1000 V		VOLT DROP PER AMP PER METER MV
	SIZE MM SQ	NOM. OVERALL DIA. MM	NOM. WEIGHT KG/KM	NOM. OVERALL DIA. MM	NOM. WEIGHT KG/KM	NOM. OVERALL DIA. MM	NOM. WEIGHT KG/KM	NOM. OVERALL DIA. MM	NOM. WEIGHT KG/KM	SINGLE PHASE AMPS	
6	8.29	123	14.14	282	15.14	373	16.86	471	42	36	7.3
10	10.02	190	17.63	452	18.83	585	20.97	734	57	49	4.2
16	11.35	264	20.03	616	21.71	824	24	1053	76	66	2.7

6701X

Table 24

Single core bunched circular copper conductor. PVC insulated. Red, Black, Blue, Green/Yellow and Brown. Voltage rating 600. UL62 **Identification** - Product identification and legend are printed on the insulation.

NOMINAL OF COND	AREA CTOR	CAN UCTOR FORMATION		INSULATION		CABLE WEIGHT G/M	CURRENT RATING AMPS
		NWIRES . OF	WIRE MM SIZE	AVERAGE THICKNESS MM	DIAMETER MM		
2.08	14	41	0.25	0.76			15
3.31	12	65	0.25	10.76			20
5.26	10	104	0.25	0.76			25
8.37	8	49	0.3	0.76			35

2812X Table 25

Two uninsulated bunched copper conductor strand laid parallel. PVC insulated. Transparent, White or Brown. Voltage rating 300/500V. BS6500. UL62. **Identification** - Product identification and legend are printed on the insulation.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION		INSULATION		CABLE WEIGHT
MM2	AWG	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM	DIAMETER	O/M
0.52	20	10	0.25	0.76		
0.82	18	16	0.25	0.76		
1.32	16	26	0.25	0.76		

2492X Table 26

Two core bunched circular copper conductor. Twin twisted flexible cable. PVC insulated. Red/Black or Blue/Brown. Non-sheathed. Voltage rating 300/500V. UL62. **Identification** - Product identification and legend are printed on the insulation.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION		INSULATION		CABLE WEIGHT	CURRENT RATING
MM2	AWG	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM	DIAMETER	G/M	AMPS
0.52	20	10	0.25	0.5			19
0.82	18	16	0.25	0.5			25
1.32	16	26	0.25	0.5			31

2491X Table 25

Single core bunched circular copper conductor. PVC insulated. Red, Black, Blue, Green/Yellow and Brown. Voltage rating 600. UL62. **Identification** - Product identification and legend are printed on the insulation.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION		INSULATION		CABLE WEIGHT	CURRENT RATING
MM2	AWG	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM	DIAMETER	EN	AMPS
0.52	20	10	0.25	0.50			3
0.82	18	16	0.25	0.50			6
1.32	16	26	0.25	0.50			10

3192X Table 27

Two core bunched circular copper conductor. PVC insulated. Blue and Brown, sheathed White, Brown or Grey. Overall flat. Voltage rating 300/500V. BS6500 -JS92. **Identification** - Product identification and legend are printed on the insulation.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION		INSULATION		CABLE WEIGHT	CURRENT RATING
MM2	AWG	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM	DIAMETER	G/M	AMPS
0.52	20	10	0.25	0.76			
0.82	18	16	0.25	0.76			

3182X

Table 28

Two core bunched circular copper conductor. PVC insulated. Blue and Brown, laid up and sheathed in Grey or White. Voltage rating 300/500V. UL62. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR		CONDUCTOR FORMATION		INSULATION		CABLE WEIGHT	CURRENT RATING
MM2	AWG	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM	DIAMETER	GIN	AMPS
0.52	20	10	0.25	0.5			
0.82	18	16	0.25	0.5			
1.32	16	26	0.25	0.5			
2.08	14	41	0.25	0.76			
3.31	12	65	0.25	0.7			
5.26	10	104	0.25	0.76			
8.37	8	49	0.3	0.76			

3183X

Table 29

Three core bunched circular copper conductor. PVC insulated. Blue, Brown, Green/Yellow, laid up and sheathed Grey or White. Voltage rating 300/500. BS6500. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		INSULATION		DIAM. OVER LAID UP CORES	SHEATH	CABLE WEIGHT	CURRENT RATING
	MM SQ	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM				
0.5	16	0.2	0.6	2.18	4.71	5.97	-	-
0.75	24	0.2	0.6	2.39	5.16	6.88	72.05	-
1	32	0.2	0.6	2.59	5.69	7.31	84.68	-
1.5	30	0.25	0.7	3.14	6.63	8.55	117.92	-
2.5	50	0.25	0.8	3.74	7.93	10.25	178.1	-
4	56	0.3	0.8	4.4	9.2	11.57	256.49	28
6	84	0.3	0.8	5.04	10.66	13.46	-	36

3184X

Table 30

Four core bunched circular copper conductor. PVC insulated. Blue, Brown, Green/Yellow, Black laid up and sheathed Grey. Voltage rating 300/500. BS6500. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		INSULATION		DIAM. OVER LAID UP CORES	SHEATH	CABLE WEIGHT	CURRENT RATING
	MM SQ	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM				
0.75	24	0.2	0.6	2.39	5.79	7.51	89.82	-
1	32	0.2	0.6	2.59	6.27	8.19	106.98	-
1.5	30	0.2	0.7	3.14	7.43	9.55	147.89	-
2.5	50	0.25	0.8	3.74	8.89	11.23	217.8	-
4	56	0.3	0.8	4.4	10.33	12.64	327.34	28
6	84	0.3	0.8	5.04	11.97	14.77	471	36

3185Y

Table 31

Five core bunched circular copper conductor. PVC insulated. Green/Yellow, Black, Blue, Brown, Black laid up and sheathed Grey. Voltage rating 300/500. BS6500. **Identification** - Product identification and legend are printed on outer sheath.

NOMINAL AREA OF CONDUCTOR	CONDUCTOR FORMATION		INSULATION		DIAM. OVER LAID UP CORES	SHEATH	CABLE WEIGHT	CURRENT RATING
	MM SQ	NO. OF WIRES	WIRE SIZE MM	AVERAGE THICKNESS MM				
0.5	16	0.2	0.6	2.18	-	-	-	-
0.75	24	0.2	0.6	2.39	6.46	8.38	111.27	-
1	32	0.2	0.6	2.59	7	8.92	131.46	-
1.5	30	0.25	0.7	3.14	8.29	10.64	172.19	-
2.5	50	0.25	0.8	3.74	9.94	12.49	277.2	-
4	56	0.3	0.8	4.4	-	-	-	28
6	84	0.3	0.8	5.04	-	-	-	36

CABLE ACCESSORY

- **CABLE GLAND**

The cable gland references contained here are specifically for the glands produced by BICC, U.K. Limited.

Cable Accessory - Cable Land

Recommended cable gland sizes: For PVC insulated two core 600/1000V cable to BS5467 stranded copper conductors.

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR CW (OUTER SEAL) 419CW
1.5	20	52	71
2.5	20	52	52
4	20	52	52
6	20	53	53
10	20/25	53	53
16	25	55	55
25	25	55	55
35	25	55	55
50	32	56	56
70	32	56	56
95	40	57	57



Cable Accessory - Cable Gland

Recommended cable gland sizes: For PVC insulated three core 600/1000V cable to BS6346 stranded copper conductors.



CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR CW (OUTER SEAL) 419CW
1.5	20	52	71
2.5	20	52	52
4	20	52	52
6	20	53	53
10	20/25	55	53
16	25	55	55
25	25/32	55	55
35	32	56	56
50	32	56	56
70	40	57	57
95	40	57	57
120	50	59	59
150	50	59	59
185	50	59	59
240	63	61	61
300	63	61	61
400	75	62	63



Cable Accesory - Cable Land

Recommended cable gland sizes: For PVC insulated four core 600/1000V cable to BS6346 stranded copper conductors.



CABLE CONDUCTOR AREA SQ MM	CABLE GLAND		
	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR (OUTER SEAL) CW 419CW
1.5	20	52	52
2.5	20	52	52
4	20/25	53	53
6	20/25	53	53
10	25	55	55
16	25/32	55	55
25	32	56	56
35	32	56	56
50	40	57	57
70	40	57	57
95	50	59	59
120	50	59	59
150	50/63	61	59
185	63	61	61
240	63	61	61
300	75	62	63
400	85	-	64



Cable Accessory - Cable Gland

Recommended cable gland sizes: For PVC insulated seven core 600/1000V cable to BS6346 stranded copper conductors.

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR (OUTER SEAL) CW 419CW
1.5	20	52	52
2.5	20	53	53
4	25	55	55

Recommended cable gland sizes: For PVC insulated twelve core 600/1000V cable to BS6346 stranded copper conductors. (See page 33)

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR (OUTER SEAL) CW 419CW
1.5	20/25	53	52
2.5	25	55	55
4	25/32	-	55

Cable Accessory - Cable Gland

Recommended cable gland sizes: For PVC insulated nineteen core 600/1000V cable to BS6346 stranded copper conductors.

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR CW (OUTER SEAL) 419CW
1.5	25	55	55
2.5	25/32	55	55
4	32	56	56

Recommended cable gland sizes: For PVC insulated thirty-seven core 600/1000V cable to BS6346 stranded copper conductors.

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR CW (OUTER SEAL) 419CW
1.5	32	56	55
2.5	32	57	57

Recommended cable gland sizes: For PVC insulated twenty-seven core 600/1000V cable to BS6346 stranded copper conductors.

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR C (OUTER SEAL) 419CW
1.5	25/32	55	55
2.5	32	56	56
4	40	57	57

Cable Accessory - Cable Gland

Recommended cable gland sizes: For XLPE insulated two core 600/1000V cable to BS5467 stranded copper conductors.

CABLE	CABLE GLAND		
CONDUCTOR AREA SQ MM	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR CW (OUTER SEAL) 419CW
1.5	20	52	71
2.5	20	52	52
4	20	52	52
6	20	53	53
10	20	53	53
16	25	55	55
25	25	55	55
35	32	56	56
50	25/32	56	56
70	32	56	56
95	32	56	56



Cable Accesory - Cable Gland

Recommended cable gland sizes: For XLPE insulated three core 600/1000V cable to BS6346 stranded copper conductors.



CABLE CONDUCTOR AREA SQ MM	CABLE GLAND		
	THREAD SHE MM	INDOOR 4100W	INDOOR/OUTDOOR (OUTER CWSEAL) 419CW
1.5	20	52	71
2.5	20	52	52
4.0	20	52	52
6.0	20	53	53
10.0	20/25	55	53
16.0	25	55	55
25.0	32	56	56
35.0	32	56	56
50.0	32	56	56
70.0	32	56	56
95.0	40	57	57
120.0	40/50	59	59
150.0	50	59	59
185.0	50	59	59
240.0	63	61	61
300.0	63	61	61
400.0	63/75	62	63

Cable Accessory - Cable Gland

Recommended cable gland sizes: For XLPE insulated four core 600/1000V cable to BS5467 stranded copper conductors.



CABLE CONDUCTOR AREA SQ MM	CABLE GLAND		
	THREAD SIZE MM	INDOOR BW 410BW	INDOOR/OUTDOOR CW (OUTER SEAL) 419CW
1.5	20	52	52
2.5	20	52	52
4.0	20	53	53
6	20	53	53
10	25	55	55
16	25	55	55
25	32	56	56
35	32/40	56	56
50	32/40	56	56
70	40	57	57
95	50	59	59
120	50	59	59
150	50	59	59
185	63	61	61
240	63	61	61
300	75	62	63
400	85	62	63



FLOW CHART FOR IN-PROCESS AND FINAL TESTING				
MACHINE	CHECK		REPORT	SAMPLES
	OPERATOR	QUALITY		
DRAWING	Copper elongation diameter Weight	Dies Viscosity of lubricant Check all if problems occur	Job Sheet Inspection sheet	Start One in five output bobbin Lubricant monthly
BRUNCHING AND STRANDING	Wire diameter Number of wires in strand Lay direction and lay length Strand dimension Strand weight Surface finish and diameter	Random checks Verify operator's report	Job Sheet Inspection Sheet	Start of the run Finish of all drums
EXTRUDER	Type OF PVC Type of masterbatch Tools - dies and tip/core point length Overall Diameter (when the machine is running) Porosity Colour Spark testing of conductors/cores	Overall diameter Radial thickness Weight of Instillation Eccentricity Surface finish Porosity Print - legend and quality	Job Sheet Extrusion Process Report Inspection Sheet	Start of the run During the run Every finished bobbin



MACHINE	CHECK		REPORT	SAMPLES
	OPERATOR	QUALITY		
LAY UP AND TAPE BEDDING	Conductor/Core diameter Number of conductors/cores Lay direction and lay length Sequence of conductor/core colour/number Diameter over laid-up conductors/cores Polytwine interstices fillers Colour of the centre polytwine filler Size of PVC and Millinex tape	Check general setup Verify operator's report	Job Sheet Inspection Sheet	All drums
ARMOURING	Diameter of the armour wire (galvanized steel or copper) Number of armour wires Lay direction and lay length Diameter over armoured conductors	Check general setup Verify operator's report	Job Sheet Inspection Sheet	All drums
REWIND, COILING AND LABELING	Bobbin size Surface finish Standard length for building wire (100 per coil) Specified length for Power Cables Specified customer length Tagging of cables with relevant information	Verify operator's report	Job Sheet	All coils/drums
FINAL TESTING - GENERAL CABLE AND POWER CABLE		Voltage withstand test Insulation Resistance Conductor Resistance Surface finish Weight - random checks Bobbin Dize Specifced customer length Tagging of bobbin with relevant information	Daily Movement Sheets QC dept. Test Report Sheets - GC and PC	1% General Cable 100% Power Cable

TECHNICAL INFORMATION

- Metric Conversion • Current Ratings & Associated Voltage Drop • Short Circuit Ratings • Glossary

TECHNICAL INFORMATION — Metric Conversion

BUILDING WIRE	
STANDARD METRIC MM.	IMPERIAL STD. NO. AND DIAMETER OF WIRES INCH
1.5	3/.029
No Metric Alternative	
2.5	7/.029
4	7/.036
6	7/.044
10	7/.052
16	7/.064
25	19/.052
35	19/.064
50	19/.072
70	19/.083
95	37/.072
120	37/.083
150	37/.093
185	37/.103
240	61/.093
300	61/.103
400	61/.114
500	61/.128

BUILDING WIRE	
AWG SIZE MCM	METRIC EQUIV. ME
16 AWG	1.3
14 AWG	2.1
12 AWG	3.3
10 AWG	5.3
8 AWG	8.4
6 AWG	13
4 AWG	21
2 AWG	34
1/0 AWG	53
2/0 AWG	67
4/0 AWG	107
250 mcm	127
300 mcm	149
350 mcm	177
500 mcm	253
600 mcm	298
800 mcm	398
1000 mcm	496

TECHNICAL INFORMATION — Metric Conversion

FLEXIBLE CORD		
STANDARD METRIC MM.	IMPERIAL NO. AND DIAMETER OF WIRES INCH	ACTUAL CROSS SECTIONAL AREA MM.
0.5	14/.0076	0.3871
0.75	23/.0076	0.6452
1	40/.0076	1.097
1.5	40/.0076	1.097
2.5	170/.0076	1.935
4	110/.0076	3.097
6	162/.0076	4.516

TECHNICAL INFORMATION CURRENT RATINGS AND ASSOCIATED VOLTAGE DROP

CABLES INSTALLED IN AIR, PVC INSULATED, UNARMoured CABLES, WITH OR WITHOUT SHEATH WITH COPPER CONDUCTORS. CONDUIT WIRE AND SINGLE CORE SHEATHED CABLES TO BS 6004 AND 6346. CONDUCTOR TEMPERATURE 70°C

Conductor area mm ²	Bunched and enclosed in conduit or trunking. Bunched and enclosed in		Clipped direct to a surface or on a cable tray bunched and unenclosed. Embedded direct in plaster.	
	underground conduit or ducts"	Suspended in free air	Two cables, single phase ac, or dc	Three or four cables de three phase ac
	Two cables, single phase ac, or	Three or four canles, three phase ac	Two cables, single phase ac, or dc	Three or four cables de three phase ac
	Current rating amp	Current rating amp	Current rating amp	Current rating amp
1.0	14	12	17	16
2.	17	14	21	20
3.	24	21	30	26
4	32	29	40	36
6	41	37	50	45
10	55	51	68	61
16	74	66	90	81
25	97	87	118	106
35	119	106	145	130
50	145	125	175	160
70	185	160	220	200
95	230	195	270	240
120	260	220	310	280
150	-	-	355	320
185	-	-	405	365
240	-	-	480	430
300	-	-	560	500
400	-	-	680	610

"Only applicable up to and including 35mm'

**TECHNICAL INFORMATION CURRENT RATINGS AND ASSOCIATED VOLTAGE DROP
CABLES LAID IN GROUND/DUCTS. PVC INSULATED, ARMoured* CABLES, WITH COPPER CONDUCTORS.
SINGLE CORE CABLES TO BS 6346. CONDUCTOR OPERATING TEMPERATURE 70°C**

Conductor area	Direct in ground +			In single way ducts +		
	Two cables (touch ng)		Three or four cables ≠	Two cables (touching)		Three or four cables
	Single phase ac	dc	Three phase	Single phase sc	dc	Three phase
	Current carrying capacity	Current carrying capacity	Current carrying capacity	Current carrying capacity	Current carrying capacity	Current carrying capacity
mm ²	amp	amp	amp	amp		
50	238	239	203	216	223	199
70	292	294	248	262	273	241
95	349	353	297	308	328	282
120	396	403	337	341	375	311
150	443	452	376	375	421	342
185	497	512	423	414	477	375
240	571	597	485	463	556	419
300	640	679	542	509	632	459
400	708	780	600	680	726	489

* Aluminium wire armour for ac systems

+ Conditions of installation: Ground temperature 15°C, depth of laying 0.5m, soil thermal resistivity 1.2°C m/w.

≠ Cables/ducts in trefoil formation.

**TECHNICAL INFORMATION CURRENT RATINGS AND ASSOCIATED VOLTAGE DROP
CABLES INSTALLED IN AIR. XLPE INSULATED ARMoured CABLES WITH COPPER CONDUCTORS.
SINGLE CORE CABLES TO BS 5467. CONDUCTOR OPERATING TEMPERATURE 90°C**

Conductor area mm ²	Clipped direct	Defined conditions	
	Two cables, single phase ac, or dc, cables spaced"	Two cables, single phase ac, or dc, cables spaced"	Three or four cables close trefoil formation
	Current rating amp	Current rating amp	Current rating amp
50	257	271	223
70	325	342	285
95	397	418	347
120	461	458	404
150	515	542	461
185	587	618	532
240	686	722	627
300	776	817	713
400	848	893	817

* Adjacent cable surfaces separated by one cable diameter.

**TECHNICAL INFORMATION CURRENT RATINGS AND ASSOCIATED VOLTAGE DROP
CABLES LAID IN GROUND/DUCTS. XLPE INSULATED, ARMoured CABLES, WITH COPPER CONDUCTORS.
TWIN AND MULTICORE TO BS 5467. CONDUCTOR OPERATING TEMPERATURE 90°C**

Conductor area	Direct in ground*					In single way ducts*		
	Two cables (touching)			One, three or four cables		One twin cable		One, three or four
	Single phase ac		dc	Three phase		Single phase ac	dc	Three phase
	Current carrying capacity	approx. voh. drop per amp per meter	Current carrying capacity	Current carrying capacity	approx. voh. drop per amp per meter	Current carrying capacity	Current carrying capacity	Current carrying capacity
mm ²	amp	mV	amp	amp	mV	amp		
16	140	2.90	140	115	3.	115	115	94
25	180	1.90	180	150	2.	145	145	125
35	215	1.	215	180	1.	175	175	150
50	255	1.00	255	215	0.87	210	210	175
70	315	0.69	315	265	0.67	260	260	215
95	380	0.22	380	315	0.45	310	315	260
120	430	0.42	435	360	0.37	355	360	300
150	480	0.35	490	405	0.30	400	405	395
185	540	0.29	560	460	0.26	455	465	380
240	630	0.24	650	530	0.21	520	540	440
300	700	0.21	740	490	0.185	490	620	495

TECHNICAL INFORMATION Glossary

Ampere: The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential. **Anneal:** Relief of mechanical stress through heat and gradual cooling. **Annealing copper** renders it less brittle.

Armoured Cable: A cable provided with a wrapping of metal for mechanical protection. **Breakdown Voltage:** The voltage at which the insulation between two conductors breaks down.

Building Wire: Wire used for light and power, 600 volts or less, usually not exposed to outdoor environment. **Bunched Stranding:** A group of strands twisted together in a random manner and the same direction without regard to geometric arrangement of specific strands. **Buncher:** A machine that twists wires together in random arrangement.

Buried Cable: A cable installed directly in the earth without use of underground conduit. Also called "direct burial cable."

Cable Filler: The material used in multiple-conductor cables to occupy the interstices formed by the assembly of the insulated conductors, thus forming a cable core.

Cable Sheath: The protective covering applied to cables. **Cabling:** Twisting together two or more insulated conductors by machine to form a cable.

Capacitance: The ratio of the electrostatic charge on a conductor to the potential difference

between the conductors required to maintain that charge.

Certificate of Compliance (C of C): A written statement; normally generated by a Quality Control Department, which states that the product being shipped meets customer's specifications. **Circuit:** A complete path over which electrons can flow from the negative terminals of a voltage source through parts and wires to the positive terminals of the same voltage source.

Colour Code: A colour system for wire or circuit identification by use of solid colours, tracers, braids, surface printing, etc.

Compact Conductor: Stranded conductor rolled to deform the round wires to fill normal interstices between the wires in a strand. **Compound:** An insulating or jacketing material made by mixing two or more ingredients. **Concentricity:** The measurement of the location of the center of the conductor with respect to the geometric center of the circular insulation.

Conductivity: The capacity of a material to carry electrical current usually expressed as a percentage of copper conductivity (copper being 100%) **Conductor:** A wire (or combination of wires not insulated from one another) suitable for carrying electric current.

Conduit: A tube or trough in which insulated wires and cables are run.

Contact: The part of a connector which actually

carries the electrical current, and are touched together or separated to control the flow. **Control Cable:** A multiconductor cable made for operation in control of signal circuits. **Cord:** A small, flexible insulated cable.

Core: In cables, a component or assembly of components over which other materials are applied, such as additional components, shield, sheath or armour. In fiber optics, the transparent glass or plastic section with a highly refractive index through which the light travels by internal reflections.

Creepage Path: The path across the surface of a dielectric between two conductors.

Crimp: Act of compressing a connector barrel around a cable in order to make an electrical connection.

Cross-linked: Inter-molecular bonds between long chain thermoplastic polymers by chemical or electron bombardment means. The properties of the resulting thermosetting materials are usually improved. **Current Carrying**

Capacity: The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.

Derating Factor: A factor used to reduce the current carrying capacity of a wire when used in environments other than that for which the value was established.

Dielectric: An insulating medium which intervenes between two conductors and permits

electrostatic attraction and repulsion to take place across it.

Dielectric Strength: The voltage which an insulation can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil). **Direct Burial Cable:** A cable installed directly in the earth.

Direct Current: an electric current which flows in only one direction.

Direction of Lay: The lateral direction in which the strands of a conductor run over the top of the cable conductor as they recede from an observer looking along the axis of the conductor or cable. Also applies to twisted cable.

Duct: An underground or overhead tube for carrying electrical conductors.

Duplex Cable: A cable composed of two insulated single conductor cables twisted together.

Elongation: The fractional increase in the length of a material stressed in tension. **Embossing:** A marker identification by means of thermal indentation leaving raised lettering on the sheath material of cable.

External Wiring: Electronic wiring which interconnects subsystems within the system.

Extrusion: Method of continuously forcing plastic, rubber or elastomer material through

TECHNICAL INFORMATION Glossary

an orifice to apply insulation or jacketing over a conductor or cable core.

Flame Resistance: The ability of a material not to propagate flame once the heat source is removed. **Flexible:** That quality of a cable component which allows for bending under the influence of outside force, as opposed to limpness which is bending due to the cable's own weight.

Ground/Earth: A Circuit Protective Conductor (CPC) between an electrical circuit and the earth or other large conducting body to serve as an earth complete electrical circuit.

Ground Conductor: A conductor in a transmission cable or line that is grounded. **High Temperature Wire and Cable:** Electrical wire and cables having thermal operating characteristics of 150°C and higher. **Hygroscopic:** Capable of absorbing moisture from the air. **Impedance:** The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency. It is a combination of resistance R and reactance X, measured in ohms. **Insulated Wire:** A conductor of electricity covered with a non-conducting material.

Insulation: A material having high resistance to the flow of electric current. Often called a dielectric in radio frequency cable.

Insulation Adhesion: The degree of tightness of the insulation over the base conductor, measured in terms of force required to remove a

specified length of insulation from the wire.

Insulation Resistance: The ratio of the applied voltage to the total current between two electrodes in contact with a specific insulation, usually expressed in megohms-M feet.

Interstices: Voids or valleys between individual strands in a conductor or between insulated conductors in a multiconductor cable.

Jacket: A rubber or synthetic covering applied over primary insulation, braids, shields, cable components or over the cable itself.

Lay: The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable.

Layer: Consecutive turns of a coil lying in a single plane.

Lead: A wire, with or without terminals, that connects two points in a circuit.

Leakage Current: The undesirable flow of current through or over the surface of an insulation.

Loss: Energy dissipated without accomplishing useful work.

Low Loss Dielectric: An insulating material that has a relatively low dielectric loss, such as polyethylene.

MCM: One thousand circular mils. Magnetic

Field: The region within which a body or current experiences magnetic force.

Marker Tape: A tape laid parallel to the conductors under the sheath in a cable, imprinted within the manufacturer's name and the specification to which the cable is made.

Multiconductor: More than one conductor within a single cable complex. **Nylon:** Thermoplastic with good chemical and abrasion resistance.

Overall Diameter: Finished diameter over wire or cable.

Overlap: The amount the trailing edge laps over the leading edge of a spiral tape wrap. **Pay-Off:** The process of feeding a cable or wire from a bobbin, reel or other package.

Plasticizer: A chemical agent added to plastics to make them softer and more pliable. **Polyethylene:** A thermoplastic material having excellent electrical properties.

Polypropylene: A thermoplastic similar to polyethylene but stiffer and having higher softening point (temperature); excellent electrical properties. **Polyvinyl Chloride:** A general purpose thermoplastic widely used for wire and cable insulations and jackets.

Porosity: Multiple voids in an insulation cross-section.

Power Cables: Cables of various sizes, construction and insulation, single or multi-

conductor, designed to distribute primary power to various types of equipment.

Reel: A revoluble flanged device made of wood or metal, used for winding flexible metal wire or cable.

Resistance: A measure of the difficulty in moving electrical current through a medium when voltage is applied. It is measured in ohms. **Rope Lay**

Conductor: A conductor composed of a central core surrounded by one or more layers of helically laid groups of wires.

Spark Test: A test designed to locate pin-holes in the insulation of a wire or cable by application of a voltage for a very short period of time while the wire is being drawn through the electrode field.

Specific Gravity: The ratio of the density (mass per unit volume) of a material to that of water.

Splice: A connection of two or more conductors or cables to provide good mechanical strength as well as good conductivity. **Strand:** One of the wires of any stranded conductor.

Strand Lay: The distance of advance of one strand of a spirally stranded conductor, in one turn, measured axially.

Stranded Conductor: a conductor composed of group of wires twisted together. **Strip:** To remove insulation from a cable.

TECHNICAL INFORMATION Glossary

THHN: 90°C, 600V nylon jacketed building wire.

THWN: Same as THW but with nylon jacket overall. 75°C. Take-Up: the process of accumulating wire or cable onto reel, bobbin or some other type of pack. Also, the device for pulling wire or cable through a piece of equipment or machine.

Tank Test: A voltage dielectric test in which the test sample is submerged in water and voltage is applied between the conductor and water as ground.

Taping: Process of insulating continuous length, large diameter wires with tape of non-extrudable materials.

Tear Strength: The force required to initiate or continue a tear in a material under specified conditions.

Temperature Rating: The maximum temperature at which an insulating material may be used in continuous operation without loss of its basic properties.

Tensile Strength: The pull stress required to break a given specimen.

Thermoplastic: A material which softens when heated and becomes firm on cooling.

Twin Cable: A pair of insulated conductors, twisted, sheathed or held together mechanically and not identified from each other in a common covering.

Twisted Pairs: A cable composed of two small insulated conductors twisted together without a common covering. UL: Underwriter's Laboratories, Inc.

Voltage: The term most often used in place of electromotive force, potential difference or voltage drop to designate the electric pressure that exists between two points and is capable of producing a current when a closed circuit is connected between two points.

Voltage Drop: The voltage developed across a component or conductor by the current in the resistance or impedance of the component or conductor.

Voltage Rating: The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

Wall Thickness: The thickness of the applied insulation or jacket.

Water Absorption: A test to determine the water absorbed by a material after a given immersion period.

Watt: A unit of electric power.

Wire: A conductor, either bare or insulated. XLPE: Crosslinked polyethylene.

PVC OR ELPE/SWA/PVC POWER CABLES / CONTROL CABLES

BS 6346 JS 93 PVC INS.
BS 5467 — PVC INS.

	CABLE REFERENCE	SIZES MM ²	INSULATION COLOUR	CONDUCTOR
	6942X	1.5 to 2.5 1.5 to 16	BROWN AND BLACK	SOLID CIRCULAR STRANDED
	6942X	1.5 to 2.5 1.5 to 400	BROWN AND BLACK	SOLID CIRCULAR STRANDED
	6943X	1.5 to 2.5 1.5 to 16	BROWN, GRAY, BLUE	SOLID CIRCULAR STRANDED
	6943X - PVC/INS 6943G - XLPE INS	25 to 400	BROWN, GRAY & BLUE	SHAPED STRANDED
	6944X	1.5 to 2.5 1.5 to 16	BROWN, BLACK, GRAY BLUE	SOLID CIRCULAR STRANDED
	6944X - PVC/INS 6944G - XLPE INS	25 to 400	BROWN, BLACK, GRAY BLUE	SHAPED STRANDED
	694(3 1/2)X - PVC/INS 694(3 1/2)G - XLPE INS	25 to 400	BROWN, GRAY, BLUE BLACK	CORES SHAPED, REDUCED NEUTRAL EITHER CIRCULAR OR SHADED, ALL STRANDED
	694()X MULTI-CORE	1.5 to 2.5 4.0 to 6.0	WHITE WITH BLACK NUMERALS OR COLOUR CODED	CIRCULAR STRANDED