



# SPECIAL CABLES

SY/CY BRAIDED CABLES





# SBEE FLEX CC CY (COLOUR CODED CORES)



### TECHNICAL DATA

Generally Confirms CE standards	Core Colours: AS per VDE 0293-308 up to 10 cores, above 10 cores as per DIN47100 colour coding	Rated Voltage: $U_0/U$ :300/500V From 0.5mm <sup>2</sup> to 1.00mm <sup>2</sup> $U_0/U$ :600/1000 V From 1.5mm <sup>2</sup> & above
Specific Insulation Resistance:>20G $\Omega$ x cm	Conductor Bunching: Short lay, Class 5 as per VDE 0295 or IS 8130	Minimum Bending Radius: Occasional Flexing 20 x Cable Dia Fixed Application 6 x Cable Dia
HV Test Voltage: 2.5 kV .	Temperature Range fixed installation: F300 C to +800 C PVC Occasional flexing -50 C +70°C	
Protective Conductor: G stands for G/Y & X no protective conductor		

### APPLICATIONS

- O.E.M, Machine Builders
- Space saving Flexible Applications
- Dry or Damp interiors
- Test Voltage at 4kV
- Power Stations. D.G.Set Power Panels.
- Air conditioning installations
- Inductive Proximity sensors circuits & Tacho Generators

### PRODUCT MAKEUP

- Strands of Electrolytic Grade, Oxygen free Bare Copper wire class V. (Class 2 & Class 6 on request).
- Cores are layed up in sequence and in layers
- Screen is with Fine Electroplated Tinned Copper wire braid
- Special PVC outer Sheath transparent
- PVC insulation & sheath, HFFR optional.

### PRODUCT FEATURES

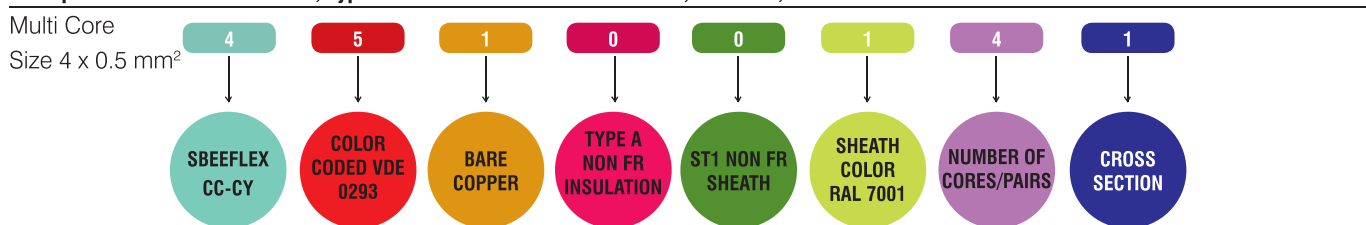
- Flame retardent as per IEC 60332-1-2
- Flamability test as per IS 10810-53
- Resistant to certain Industrial Oils used in Machine tool Industries
- Organic & Inorganic Chemical Resistance of Certain type
- High Percentage Coverage of Electroplated Tinned Copper fine wires for very good EMC protection. Low Transfer Impedence of 250 $\Omega$ /km at 30MHz

\* Energy efficient product optional and available on request. \* Anti-rodent & anti-termite properties optional on request. \* In-built UV protection.

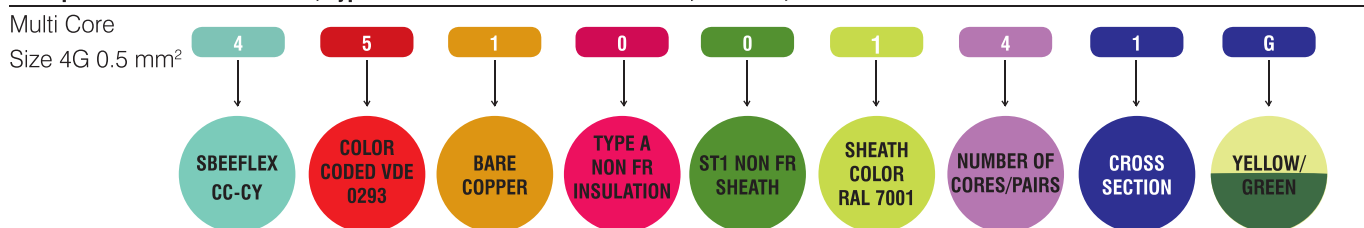
Article No.	Conductor Cross-Section in mm <sup>2</sup>	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
451001021	2X0.5	7.00	41.00	75.00
451001031G	3G0.5	7.30	46.00	83.00
451001041G	4G0.5	7.90	55.00	99.00
451001051G	5G0.5	8.40	66.00	112.00
451001071G	7G0.5	8.90	80.00	132.00
451001022	2X0.75	7.40	46.00	86.00
451001032G	3G0.75	7.90	57.00	100.00
451001042G	4G0.75	8.40	64.00	115.00
451001052G	5G0.75	8.90	77.00	130.00
451001072G	7G0.75	9.70	102.00	161.00
451001023	2X1	7.90	56.00	98.00
451001033G	3G1	8.20	60.00	111.00
451001043G	4G1	8.70	78.00	130.00
451001053G	5G1	9.50	89.00	153.00
451001073G	7G1	10.20	113.00	185.00
451001024	2X1.5	9.90	65.00	132.00
451001034G	3G1.5	10.30	79.00	170.00
451001044G	4G1.5	11.30	97.00	204.00
451001054G	5G1.5	12.60	116.00	246.00
451001074G	7G1.5	13.90	149.00	320.00

Article No.	Conductor Cross-Section in mm <sup>2</sup>	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
451001035G	3G2.5	11.80	146.00	211.00
451001045G	4G2.5	13.50	167.00	310.00
451001055G	5G2.5	14.60	200.00	326.00
451001075G	7G2.5	15.90	288.00	444.00
451001046G	4G4	15.10	237.00	403.00
451001056G	5G4	16.50	328.00	478.00
451001047G	4G6	16.60	318.00	524.00
451001057G	5G6	18.20	410.00	624.00
451001038G	3G10	18.90	414.00	690.00
451001048G	4G10	21.10	558.00	843.00
451001058G	5G10	23.10	714.00	1004.00
451001039G	3G16	21.70	607.00	910.00
451001049G	4G16	23.90	804.00	1395.00
451001059G	5G16	26.80	1050.00	1812.00
4510010310G	3G25	26.60	936.00	1330.00
4510010410G	4G25	29.40	1289.00	1903.00
4510010510G	5G25	32.60	1446.00	2374.00
4510010311G	3G35	29.40	1258.00	1370.00
4510010411G	4G35	32.40	1693.00	2489.00
4510010511G	5G35	36.00	1975.00	2771.00

#### Example to find out Part Number, Type A & ST1 PVC 4 Core of 0.5mm<sup>2</sup>, CLASS 5, BARE CU



#### Example to find out Part Number, Type A & ST1 PVC 4 Core of 0.5mm<sup>2</sup>, CLASS 5, BARE CU



- Note:
1. Tinned copper Class 2, Class 5 or Class 6 on request.
  2. Packing 500mtrs in wooden Spools, or 100mtr Rings

# SBEE FLEX BNC CY (BLACK NUMBER CODED CORES)



### TECHNICAL DATA

Generally Confirms CE standards	Core Colours: AS per VDE 0293. All cores Black with white number print at an interval of 50mm. Either with or with out yellow/green protective conductor either with or with out yellow/green protective conductor	Rated Voltage: U <sub>0</sub> /U :300/500V
Specific Insulation Resistance:>20G Ω x cm	Conductor Bunching: Short lay, Class 5 as per VDE 0295 or IS 8130	Minimum Bending Radius: Occasional Flexing 20 x Cable Dia
HV Test Voltage: 4kV		Fixed Application 6 x Cable Dia
Protective Conductor: G stands for G/Y & X no protective conductor		Temperature Range: Fixed Installation -30° C to +80°C PVC

### APPLICATIONS

- O.E.M, Machine Builders
- Space saving Flexible Applications
- Dry or Damp interiors
- Test Voltage at 4kV
- Power Stations. D.G.Set Power Panels.
- Air conditioning installations
- Inductive Proximity sensors circuits & Tacho Generators

### PRODUCT MAKEUP

- Strands of Electrolytic Grade, Oxygen free Bare Copper wire class V. (Class 2 or Class 6 on request).
- Different classes of PVC Insulation, Inner & Outer Sheath, HFFR optional.
- Cores are layed up in sequence and in layers
- Screen is with Fine Electroplated Tinned Copper wire braid

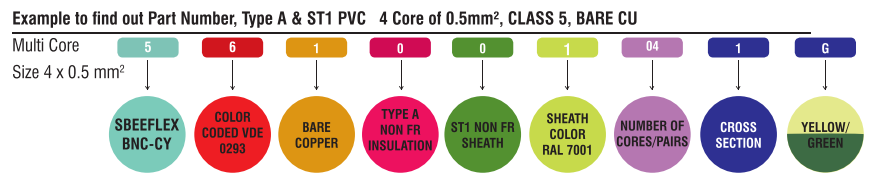
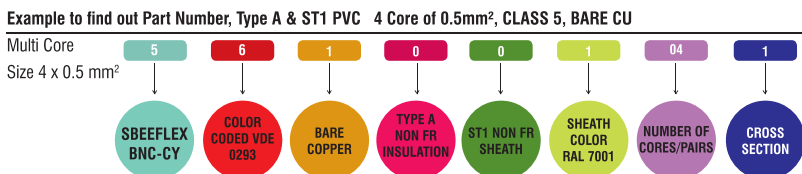
### PRODUCT FEATURES

- Flame retardent as per IEC 60332-1-2
- Flamability test as per IS 10810-53
- Resistant to certain Industrial Oils used in Machine tool Industries
- Organic & Inorganic Chemical Resistance of Certain type
- High Percentage Coverage of Electroplated Tinned Copper fine wires for very good EMC protection. Low Transfer Impedence of 250Ω/km at 30MHz

\* Energy efficient product optional and available on request. \* Anti-rodent & anti-termite properties optional on request. \* In-built UV protection.

Article No.	Conductor Cross-Section in mm <sup>2</sup>	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
561001021	2X0.5	7.00	41.00	75.00
561001031G	3G0.5	7.30	45.50	83.00
561001031	3X0.5	7.30	45.50	83.00
561001041G	4G0.5	7.90	55.00	99.00
561001041	4X0.5	7.90	55.00	99.00
561001051G	5G0.5	8.40	66.00	112.00
561001051	5X0.5	8.40	66.00	112.00
561001071G	7G0.5	8.90	80.50	132.00
561001071	7X0.5	8.90	80.50	132.00
561001121G	12G0.5	11.30	138.50	202.00
561001121	12X0.5	11.30	138.50	202.00
561001181G	18G0.5	13.30	156.40	289.00
561001251G	25G0.5	15.20	250.00	378.00
561001022	2X0.75	7.40	46.00	86.00
561001032G	3G0.75	7.90	57.90	100.00
561001032	3X0.75	7.90	57.90	100.00
561001042G	4G0.75	8.40	64.00	115.00
561001042	4X0.75	8.40	64.00	115.00
561001052G	5G0.75	8.90	77.40	130.00
561001052	5X0.75	8.90	77.40	130.00
561001072G	7G0.75	9.70	102.00	161.00
561001072	7X0.75	9.70	102.00	161.00
561001122G	12G0.75	12.30	177.00	247.00
561001122	12X0.75	12.30	177.00	247.00
561001181G	18G0.75	14.50	243.00	356.00
561001182	18X0.75	14.50	243.00	356.00
561001252G	25G0.75	16.60	307.30	465.00
561001023	2X1	7.90	56.00	98.00
561001033G	3G1	8.20	65.30	111.00
561001033	3X1	8.20	65.30	111.00
561001043G	4G1	8.70	78.10	130.00
561001043	4x1	8.70	78.10	130.00
561001053G	5G1	9.50	89.40	153.00
561001073G	7G1	10.20	113.30	185.00
561001073	7X1	10.20	113.30	185.00
561001123G	12G1	13.30	188.10	307.00
561001123	12X1	13.30	188.10	307.00
561001163G	16G1	14.60	216.00	390.00
561001183G	18G1	15.50	286.00	418.00

Article No.	Conductor Cross-Section in mm <sup>2</sup>	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
561001183	18X1	15.50	286.00	418.00
561001253G	25G1	17.50	388.50	544.00
561001024	2X1.5	8.50	65.00	117.00
561001034G	3G1.5	8.90	83.00	136.00
561001034	3X1.5	8.90	83.00	136.00
561001044G	4G1.5	9.60	100.00	163.00
561001044	4x1.5	9.60	100.00	163.00
561001054G	5G1.5	10.30	125.00	188.00
561001054	5X1.5	10.30	125.00	188.00
561001074G	7G1.5	11.30	149.00	237.00
561001074	7X1.5	11.30	149.00	237.00
561001124G	12G1.5	14.80	280.00	393.00
561001184G	18G1.5	17.20	389.00	538.00
561001254G	25G1.5	20.10	535.00	745.00
561001025	2X2.5	9.90	112.00	165.00
561001035G	3G2.5	10.30	146.00	192.00
561001045G	4G2.5	11.30	167.00	233.00
561001055G	5G2.5	12.60	200.00	283.00
561001075G	7G2.5	13.90	288.00	371.00
561001125G	12G2.5	17.60	477.30	585.00
561001026	2X4	11.40	120.00	247.00
561001046G	4G4	13.40	237.00	347.00
561001056G	5G4	14.70	280.00	413.00
561001027	2X6	13.60	180.00	353.00
561001047G	4G6	15.80	318.00	485.00
561001057G	5G6	17.30	441.00	702.00
561001077G	7G6	18.80	530.00	950.00
561001028	2X10	16.40	256.00	492.00
561001038G	3G10	17.40	362.40	507.00
561001048G	4G10	19.00	558.00	735.00
561001058G	5G10	21.20	595.00	847.00
561001078G	7G10	23.20	796.00	1039.00
561001029	2X16	18.60	390.00	698.00
561001049G	4G16	22.20	804.00	1395.00
561001059G	5G16	26.70	935.00	1440.00
5610010410G	4G25	28.70	1161.00	1730.00
5610010510G	5G25	31.60	1400.00	2090.00
5610010411G	4G35	32.00	1543.00	2210.00
5610010511G	5G35	35.50	1901.00	2710.00



- Note:
1. Tinned copper Class 2, Class 5 or Class 6 on request.
  2. Packing 500mtrs in wooden Spools, or 100mtr Rings

# SBEE FLEX CC SY (COLOUR CODED CORES)



### TECHNICAL DATA

Generally confirms to test VDE 0281 P 13 PS	Core Colours: AS per VDE 0293. All cores Black with white number print at an interval of 50mm. Either with or with out yellow/green protective conductor either with or with out yellow/green protective conductor	Rated Voltage: U0/U :300/500V
Specific Insulation Resistance:>20G Ω x cm	Temperature Range: Fixed Installation -300C to +800C PVC Occasional flexing -50 C +70°C	Minimum Bending Radius: Occasional Flexing 20 x Cable Dia Fixed Application 6 x Cable Dia
Test Voltage: 4kV		Conductor Bunching: Short lay, Class 5 as per VDE 0295 or IS 8130
Protective Conductor: G stands for G/Y & X no protective conductor		

### APPLICATIONS

- O.E.M, Machine Builders
- Space saving Flexible Applications Mechanical Protection.
- Dry or Damp interiors
- Test Voltage at 4kV
- Power Stations. D.G.Set Control Circuit
- Air conditioning installations

### PRODUCT MAKEUP

- Strands of Electrolytic Grade, Oxygen free Bare Copper wire class V, (Class 2 or Class 6 on request)
- Different classes of PVC Insulation, Inner & Outer Sheath, HFFR optional
- Cores are layed up in sequence and in layers
- Screen is with Fine oxidation resistant Special steel wire braid
- Special PVC outer Sheath, Transparent

### PRODUCT FEATURES

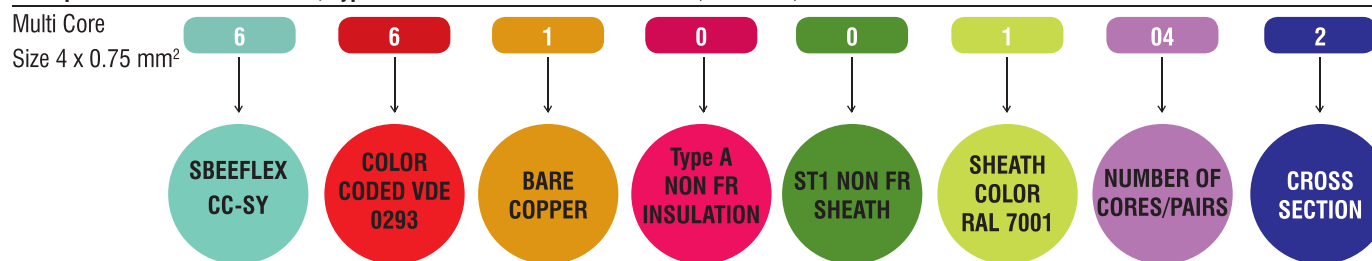
- Flame retardent as per IEC 60332-1-2
- Flamability test as per IS 10810-53
- Resistant to certain Industrial Oils used in Machine tool Industries
- Organic & Inorganic Chemical Resistance of Certain type
- High Percentage Coverage of fine Steel wires imprat robhust mechanical protection and to some extent EMC protection too

\* Energy efficient product optional and available on request. \* Anti-rodent & anti-termite properties optional on request. \* In-built UV protection.

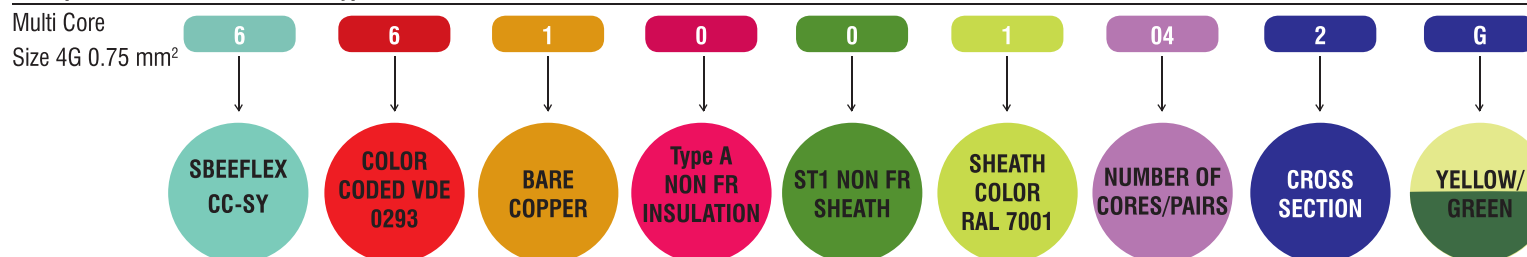
Article No.	Conductor Cross-Section in mm2	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
661001022	2X0.75	8.20	14.40	97.00
661001032G	3G0.75	8.50	21.60	108.00
661001042G	4G0.75	9.20	28.80	126.00
661001052G	5G0.75	9.70	36.00	146.00
651001072G	7G0.75	10.30	50.00	172.00
651001122G	12G0.75	12.90	86.00	260.00
661001023	2X1	8.50	19.20	137.00
661001033G	3G1	8.80	29.00	154.00
661001043G	4G1	9.50	38.40	180.00
661001053G	5G1	10.10	48.00	202.00
661001073G	7G1	11.00	67.00	242.00
661001253G	25G1	18.10	240.00	653.00
661001024	2X1.5	9.30	29.00	172.00
661001034G	3G1.5	9.70	43.00	191.00
661001044G	4G1.5	10.20	58.00	217.00
661001074G	7G1.5	11.10	72.00	268.00
661001124G	12G1.5	11.90	101.00	311.00
661001124	12X1.5	15.40	173.00	499.00
661001184G	18G1.5	17.60	259.00	652.00

Article No.	Conductor Cross-Section in mm2	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
661001254G	25G1.5	20.30	360.00	913.00
661001025	2X2.5	12.10	48.00	245.00
661001035G	3G2.5	12.60	72.00	278.00
661001045G	4G2.5	13.90	96.00	339.00
661001055G	5G2.5	15.20	120.00	397.00
661001075G	7G2.5	16.30	168.00	470.00
661001026	2X4	13.60	76.80	329.00
661001046G	4G4	15.70	154.00	457.00
661001056G	5G4	17.10	192.00	545.00
661001037G	3G6	15.80	173.00	544.00
661001047G	4G6	17.20	230.00	687.00
661001057G	5G6	18.80	288.00	798.00
661001048G	4G10	21.30	384.00	1009.00
661001058G	5G10	23.30	480.00	1197.00
661001048G	4G16	24.10	614.00	1384.00
661001058G	5G16	26.80	768.00	1740.00
6610010410G	4G25	29.40	960.00	2021.00
6610010510G	5G25	32.60	1200.00	2464.00
6610010411G	4G35	32.40	1344.00	2570.00

#### Example to find out Part Number, Type A & ST1 PVC 4 Core of 0.75mm<sup>2</sup>, CLASS 5, BARE CU



#### Example to find out Part Number, Type A & ST1 PVC 4 Core of 0.75mm<sup>2</sup>, CLASS 5, BARE CU



Note:  
1. Tinned copper Class 2, Class 5 or Class 6 on request.  
2. Packing 500mtrs in wooden Spools, or 100mtr Rings



# SBEE FLEX BNC SY (BLACK NUMBER CODED CORES)



## TECHNICAL DATA

Generally confirms to test CE standard	Core Colours: As per VDE 0293. All cores Black with white number print at an interval less than 50mm. Either with or without yellow/green protective conductor either with or without yellow/green protective conductor	Rated Voltage: $U_0/U$ :300/500V
Specific Insulation Resistance: >20G $\Omega$ x cm	Temperature Range: Fixed Installation -30°C to +80°C PVC Occasional flexing -5° C +70°C	Minimum Bending Radius: Occasional Flexing 20 x Cable Dia Fixed Application 6 x Cable Dia
Test Voltage: 4kV		Conductor Bunching: Short lay, Class 5 as per VDE 0295 or IS 8130
Protective Conductor: G stands for G/Y & X no protective conductor		

## APPLICATIONS

- O.E.M, Machine Builders
- Space saving Flexible Applications Mechanical Protection.
- Dry or Damp interiors
- Test Voltage at 4kV
- Power Stations. D.G.Set Control Circuit
- Air conditioning installations

## PRODUCT MAKEUP

- Strands of Electrolytic Grade, Oxygen free Bare Copper wire class V, (Class 2 or Class 6 on request)
- Different classes of PVC Insulation, Inner & Outer Sheath, HFFR optional
- Cores are layed up in sequence and in layers
- Screen is with Fine oxidation resistant Special steel wire braid
- Special PVC outer Sheath, Transparent

## PRODUCT FEATURES

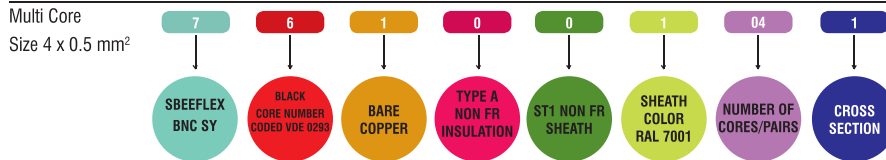
- Flame retardent as per IEC 60332-1-2
- Flamability test as per IS 10810-53
- Resistant to certain Industrial Oils used in Machine tool Industries
- Organic & Inorganic Chemical Resistance of Certain type
- High Percentage Coverage of fine Steel wires imprat robhust mechanical protection and to some extent EMC protection too

\* Energy efficient product optional and available on request. \* Anti-rodent & anti-termite properties optional on request. \* In-built UV protection.

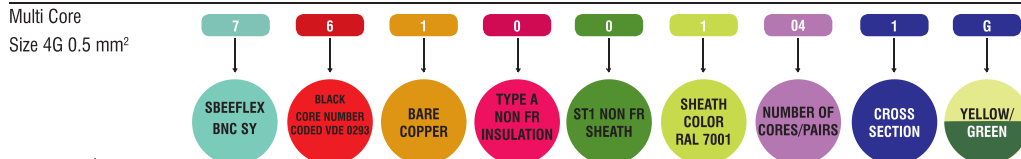
Article No.	Conductor Cross-Section in mm2	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
761001021	2X0.5	7.80	10.00	87.00
761001031G	3G0.5	8.10	15.00	95.00
761001041G	4G0.5	8.50	19.20	107.00
761001051G	5G0.5	9.20	24.00	123.00
761001071G	7G0.5	9.70	33.60	147.00
761001101G	10G0.5	11.60	48.00	196.00
761001121G	12G0.5	11.90	58.00	213.00
761001141G	14G0.5	12.50	67.00	237.00
761001181G	18G0.5	13.90	86.40	291.00
761001211G	21G0.5	14.90	101.00	332.00
761001251G	25G0.5	15.60	120.00	375.00
761001022	2X0.75	8.20	14.40	97.00
761001032G	3G0.75	8.50	21.60	108.00
761001042G	4G0.75	9.20	28.80	126.00
761001052G	5G0.75	9.70	36.00	146.00
761001072G	7G0.75	10.30	50.00	172.00
761001092G	9G0.75	12.40	65.00	224.00
761001122G	12G0.75	12.90	86.00	260.00
761001152G	15G0.75	14.10	108.00	315.00
761001182G	18G0.75	14.90	130.00	355.00
761001252G	25G0.75	17.00	180.00	465.00
761001023G	2X1	8.50	19.20	106.00
761001033G	3G1	8.80	28.80	119.00
761001043G	4G1	9.50	38.40	141.00
761001053G	5G1	10.10	48.00	164.00
761001073G	7G1	11.00	67.00	200.00
761001083G	8G1	12.50	77.00	234.00
761001093G	9G1	13.20	86.00	260.00
761001123G	12G1	13.90	115.00	309.00
761001143G	14G1	14.40	134.00	345.00
761001183G	18G1	15.90	173.00	415.00
761001203G	20G1	16.80	192.00	455.00
761001253G	25G1	18.10	240.00	548.00

Article No.	Conductor Cross-Section in mm2	Outer Diameter in mm approx	Copper index kg/km	Weight kg/ approx
761001024	2X1.5	9.30	29.00	128.00
761001034G	3G1.5	9.70	43.00	151.00
761001044G	4G1.5	10.20	58.00	173.00
761001054G	5G1.5	11.10	72.00	202.00
761001074G	7G1.5	11.90	101.00	248.00
761001084G	8G1.5	14.00	115.00	301.00
761001124G	12G1.5	15.40	173.00	396.00
761001144G	14G1.5	15.90	202.00	438.00
761001184G	18G1.5	17.60	259.00	538.00
761001254G	25G1.5	20.30	360.00	713.00
761001035G	3G2.5	11.10	72.00	206.00
761001045G	4G2.5	12.10	96.00	249.00
761001055G	5G2.5	13.20	120.00	295.00
761001075G	7G2.5	14.30	168.00	373.00
761001125G	12G2.5	18.20	288.00	586.00
761001185G	18G2.5	21.40	432.00	823.00
761001255G	25G2.5	24.40	600.00	1,093.00
761001036G	3G4	12.70	115.00	285.00
761001046G	4G4	14.00	154.00	348.00
761001056G	5G4	15.10	192.00	410.00
761001076G	7G4	16.40	269.00	519.00
761001047G	4G6	16.20	230.00	482.00
761001057G	5G6	17.70	288.00	579.00
761001077G	7G6	19.20	403.00	740.00
761001048G	4G10	19.40	384.00	731.00
761001058G	5G10	21.50	480.00	889.00
761001078G	7G10	23.40	672.00	1,146.00
761001049G	4G16	22.40	614.00	1,384.00
761001059G	5G16	24.60	768.00	1,740.00
7610010410G	4G25	28.90	960.00	1,680.00
7610010510G	5G25	31.80	1,200.00	2,050.00
7610010411G	4G35	32.20	1,344.00	2,170.00

### Example to find out Part Number, Type A & ST1 PVC 4 Core of 0.5mm<sup>2</sup>, CLASS 5, BARE CU

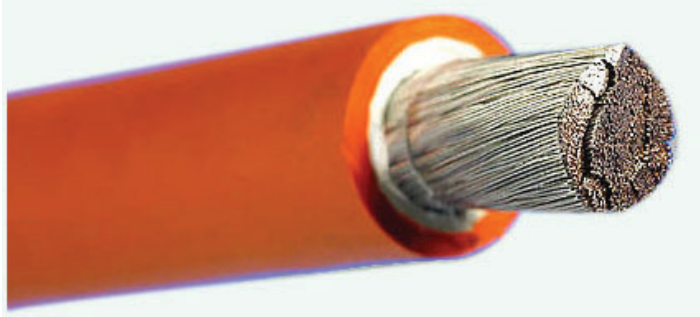


### Example to find out Part Number, Type A & ST1 PVC 4 Core of 0.5mm<sup>2</sup>, CLASS 5, BARE CU



- Note:
1. Tinned copper Class 2, Class 5 or Class 6 on request.
  2. Packing 500mtrs in wooden Spools, or 100mtr Rings

## SPECIALITY CABLES OUTSOURCED FROM OUR EUROPEAN PARTNERS



HO1N2-D – SBEE Welding cables for arc welding purpose.



SBEE RUBBER CRANE: Rubber cables for crane applications for constant reeling and un-reeling purpose. Festooning Rubber cables for crane and other applications.



SBEE HO7RN8-F – Rubber insulated and sheathed cables for water and submersible pump applications.

SBEE HO7RNF- Rubber cables for tooling's, machinery and agricultural devices. For medium mechanical stress.