



SVARN
Inspired by possibilities

Advancing the frontiers of national security

**POWER & CONTROL CABLES
FOR DEFENCE APPLICATIONS**



SVARN GROUP

TELECOM | AUTOMOTIVE | **DEFENCE** | RAILWAYS | POWER | PROJECTS

SVARN POWER & CONTROL CABLES FOR DEFENCE APPLICATIONS

Unmatched durability and reliability, even in extreme environments

Svarn specialises in manufacturing an extensive array of high-performance power and control cables tailored for defence applications. In the dynamic landscape of military operations, reliability and performance stand as paramount pillars; and Svarn cables play indispensable roles across a diverse spectrum of critical areas — in the field or off it.

These cables serve critical roles in various areas such as weapon systems, engine compartments, mine detection, communication equipment, armoured vehicles, personnel transportation, energy generation, military installations, and fire guidance control. They're meticulously designed using state-of-the-art military cable constructions to ensure resilience in frontline conditions, including extreme weather. Svarn maintains a leading position in advancing the material technologies integral to these cables, underscoring its commitment to the effectiveness and safety of military operations.



ABOUT US

At Svarn, we're pioneers in turning big ideas into real-world solutions. Our legacy of innovation, rooted in the essence of "Svarn" or Gold, has thrived since 2005. With over 3,000 dedicated employees, we're constantly pushing the boundaries of technology to benefit our customers and society. Our impact spans across six key industries, supported by seven cutting-edge manufacturing facilities and global offices in strategic locations. Through relentless innovation, we're shaping a prosperous and sustainable future — **inspired by possibilities.**



Know more at www.svarn.com

Svarn PVC Insulated Defence Standard 61-12 Part-4 Cables

Svarn Defence Standard 61-12 Part-4 Cables are designed for bunch wiring between components, instruments and electrical equipment. They are majorly used in aircrafts, computers, military vehicles and military equipment.



CABLE STRUCTURE

- Annealed tinned copper conductor or bare copper conductor
- PVC (polyvinyl chloride) insulation
- Tinned copper wire screened
- PVC outer sheath

TECHNICAL DATA

- Nominal voltage: 250V RMS at frequencies up to 1.6kHz for cores with (7/0.1)
440V RMS at frequencies up to 1.6kHz for cores with (7/0.2)
- Resistance: 384 Ohms/km for (7/0.1)
92 Ohms/km for (7/0.2)
- Temperature range: -30°C to +70°C
- Bending radius: 7.5X cable dia
- As per Def. Stan 61-12 Part 4

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/underground installation
- Oil/ gasoline resistant
- RoHS compliant

Table for PVC Insulated, PVC Sheathed Defence Standard Cable

PART NUMBER	NUMBER OF CORES	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.2	2	0.45	3.4	13.5
FGCBPCYY3C0.2	3	0.45	3.6	16.5
FGCBPCYY4C0.2	4	0.45	3.9	20.5
FGCBPCYY6C0.2	6	0.45	4.6	30.5
FGCBPCYY12C0.2	12	0.55	6.2	53.5
FGCBPCYY18C0.2	18	0.65	7.5	80.5
FGCBPCYY25C0.2	25	0.65	8.8	101
FGCBPCYY36C0.2	36	0.65	9.9	141
FGCBPCYY50C0.2	50	0.75	11.7	201

**Table for PVC Insulated, Collectively Screened,
PVC Sheathed Defence Standard Cable**

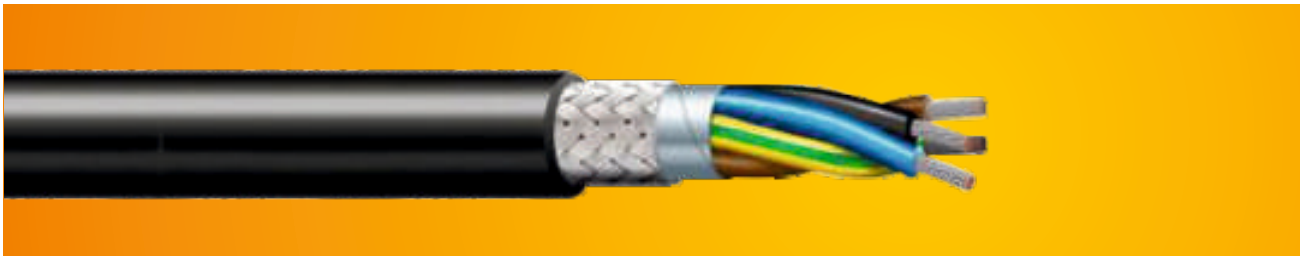
PART NUMBER	NUMBER OF CORES	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYYCS2C0.2	2	0.45	3.9	23.5
FGCBPCYYCS3C0.2	3	0.45	4	27.5
FGCBPCYYCS4C0.2	4	0.45	4.4	32.5
FGCBPCYYCS6C0.2	6	0.45	5.7	55.5
FGCBPCYYCS12C0.2	12	0.55	7	83.4
FGCBPCYYCS18C0.2	18	0.65	8.3	111
FGCBPCYYCS25C0.2	25	0.65	9.6	150.5
FGCBPCYYCS36C0.2	36	0.65	10.9	201
FGCBPCYYCS50C0.2	50	0.75	12.7	271

**Table for PVC Insulated, Individually Screened,
PVC Sheathed Defence Standard Cable**

PART NUMBER	NUMBER OF CORES	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYYIS2C0.2	2	0.45	4.3	22.5
FGCBPCYYIS3C0.2	3	0.45	4.6	29.5
FGCBPCYYIS4C0.2	4	0.45	5.2	40.5
FGCBPCYYIS6C0.2	6	0.45	6.2	58.4
FGCBPCYYIS12C0.2	12	0.55	8.3	111
FGCBPCYYIS18C0.2	18	0.65	9.7	151
FGCBPCYYIS25C0.2	25	0.65	11.7	211
FGCBPCYYIS36C0.2	36	0.65	13.2	291
FGCBPCYYIS50C0.2	50	0.75	15.7	411

Svarn LSZH Insulated Defence Standard 61-12 Part-4 Cables

Svarn LSZH Insulated Defence Standard 61-12 Part-4 Cables are designed for bunch wiring between components, instruments and electrical equipment. These cables are suitable for smoke and toxic fumes sensitive areas reducing the risk to the instruments and life. They are majorly used in aircrafts, computers, military vehicles and military equipment.



CABLE STRUCTURE

- Annealed tinned copper conductor or bare copper conductor
- LSZH (Low Smoke Zero Halogen) insulation
- Mylar tape screened
- Al foil screening over tinned copper drain wire
- Tinned copper wire screened
- Mylar tape overall screened
- LSZH outer sheath over nylon rip cord (any colour except clear)

TECHNICAL DATA

- Nominal voltage: 440V RMS at frequencies up to 1.6khz for cores with (7/0.2)
- Resistance: 92 Ohms/km for (7/0.2)
- Temperature range: -30°C to +60°C
- Bending radius: 7.5X cable dia
- As per Def. Stan 61-12 Part 4

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/ underground installation
- Oil resistant
- RoHS compliant

PART NUMBER	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCLSZH2C0.2	2	3.73	24
FGCBPCYY3C0.2	3	4.1	28
FGCBPCYY4C0.2	4	4.4	33
FGCBPCYY6C0.2	6	5.2	61
FGCBPCYY12C0.2	12	6.7	84
FGCBPCYY18C0.2	18	7.9	111
FGCBPCYY25C0.2	25	9.2	151

Svarn PVC Insulated Defence Standard 61-12 Part-5 Cables

Svarn Defence Standard 61-12 Part-5 Cables are designed for bunch wiring between components, instruments and electrical equipment. They are majorly used in aircrafts, computers, military vehicles and military equipment.



CABLE STRUCTURE

- Annealed tinned copper conductor or bare copper conductor
- PVC (polyvinyl chloride) insulation
- Tinned copper wire screened
- PVC outer sheath

TECHNICAL DATA

- Nominal voltage: 440V RMS at frequencies up to 1.6kHz for cores with (16/0.2)
- Resistance: 40.1 Ohms/km for (16/0.2)
- Temperature range: -30°C to +70°C
- Bending radius: 7.5X cable dia
- As per Def. Stan 61-12 Part 5 & Part-4

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/underground installation
- Oil/ gasoline resistant
- RoHS compliant

Table for PVC Insulated, PVC Sheathed Defence 61/12 Part-5 Cable

PART NUMBER	NUMBER OF CORES	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.5	2	0.9	5.6	34.5
FGCBPCYY3C0.5	3	0.9	5.9	42.5
FGCBPCYY4C0.5	4	0.9	6.4	54.5
FGCBPCYY6C0.5	6	0.9	7.4	75.5
FGCBPCYY8C0.5	8	0.9	8.6	96.5
FGCBPCYY12C0.5	12	0.9	9.6	120.5
FGCBPCYY18C0.5	18	0.9	11.1	181
FGCBPCYY25C0.5	25	0.9	13.2	231

**Table for PVC Insulated, Collectively Screened,
 PVC Sheathed Defence 61/12 Part-5 Cable**

PART NUMBER	NUMBER OF CORES	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.5	2	0.9	6.5	70
FGCBPCYY3C0.5	3	0.9	6.9	80
FGCBPCYY4C0.5	4	0.9	7.4	93
FGCBPCYY6C0.5	6	0.9	8.4	121
FGCBPCYY8C0.5	8	0.9	9.0	141
FGCBPCYY12C0.5	12	0.9	10.7	191
FGCBPCYY18C0.5	18	0.9	12.1	251
FGCBPCYY25C0.5	25	0.9	14.1	321

**Table for PVC Insulated, Individually Screened,
 PVC Sheathed Defence 61/12 Part-5 Cable**

PART NUMBER	NUMBER OF CORES	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.5	2	0.9	6.1	48
FGCBPCYY3C0.5	3	0.9	6.8	61
FGCBPCYY4C0.5	4	0.9	7.4	76
FGCBPCYY6C0.5	6	0.9	8.7	111
FGCBPCYY7C0.5	7	0.9	8.8	121
FGCBPCYY12C0.5	12	0.9	11.4	191
FGCBPCYY18C0.5	18	0.9	13.4	271
FGCBPCYY25C0.5	25	0.9	16	361

Svarn PVC Insulated Defence Standard 61-12 Part-6 Cables

Svarn Defence Standard 61-12 Part-6 Cables are designed for wiring between components, instruments and electrical equipment. They are majorly used in aircrafts, computers, military vehicles and military equipment. These cables are produced in three types.



CABLE STRUCTURE

- Annealed tinned copper conductor or bare copper conductor.
- PVC (polyvinyl chloride) insulation

TECHNICAL DATA

- Nominal voltage:
Type-1 (750 volts)
Type-2 (1000 volts)
Type-3 (1500 volts)
- Temperature range:
Type-1 (-15°C to +85°C)
Type-2 (-15°C to +85°C)
Type-2 (-20°C to +85°C)
- Bending radius: 7.5X cable dia
- As per Def. Stan 61-12 Part 6

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/
underground installation
- Oil/ gasoline resistant
- RoHS compliant

**Table for PVC Insulated, Individually Screened,
PVC Sheathed Defence 61/12 Part-6 Type 1 Cable**

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	CONDUCTOR CONSTRUCTION	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY1C0.22	0.22	7/0.2	0.15	1	2.7
FGCBPCYY1C0.28	0.28	1/0.6	0.15	1	3.6

**Table for PVC Insulated, Individually Screened,
PVC Sheathed Defence 61/12 Part-6 Type 2 Cable**

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	CONDUCTOR CONSTRUCTION	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY1C0.22	0.22	7/0.2	0.25	1.2	3.2
FGCBPCYY1C0.28	0.28	1/0.6	0.25	1.2	3.7
FGCBPCYY1C0.41	0.41	13/0.2	0.25	1.4	6.0
FGCBPCYY1C0.5	0.5	16/0.2	0.25	2.0	6.2
FGCBPCYY1C0.75	0.75	24/0.2	0.4	2.1	9.9

**Table for PVC Insulated, Individually Screened,
PVC Sheathed Defence 61/12 Part-6 Type 3 Cable**

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	CONDUCTOR CONSTRUCTION	INSULATION THICKNESS (mm)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY1C0.22	0.5	16/0.2	0.5	2.2	9.0
FGCBPCYY1C0.28	0.75	24/0.6	0.5	2.3	12
FGCBPCYY1C0.41	1.0	32/0.2	0.5	2.5	15



Svarn Defence Standard 61-12 Part-18 Single Core Cables – 600 to 2500 Volts

Svarn Defence Standard 61-12 Part-18 Cables are designed for wiring between components, instruments and electrical equipment. They are majorly used in aircrafts, computers, military vehicles, military equipment, military electronics, helicopters, satellites, ships, mass transit and automobiles.



CABLE STRUCTURE

- Annealed tinned copper conductor/ silver coated copper/ nickel coated copper
- Radiation cross linked specially formulated polyalkene insulation

TECHNICAL DATA

- Nominal voltage: 600 to 1000 volts
- Temperature range: -65°C to +200°C
- Tensile strength: 28N/mm²
- As per Def. Stan 61-12 Part 18

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/ underground installation
- Oil/ chemical resistant
- Resistant to soldering iron & overload
- High flexibility
- Low smoke emission
- High flame resistant
- RoHS compliant

Svarn Defence Standard 61-12 Part-18 Single Core Cables – 600 Volts

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY1C0.051	0.051	30	0.71	1.1
FGCBPCYY1C0.08	0.08	28	0.79	1.5
FGCBPCYY1C0.13	0.13	26	0.9	2.1
FGCBPCYY1C0.2	0.2	24	1.05	3
FGCBPCYY1C0.33	0.33	22	1.22	4.5
FGCBPCYY1C0.52	0.52	20	1.43	6.8
FGCBPCYY1C0.82	0.82	18	1.68	10.2
FGCBPCYY1C1.31	1.31	16	1.86	13
FGCBPCYY1C2.08	2.08	14	2.29	20
FGCBPCYY1C3.31	3.31	12	2.77	31
FGCBPCYY1C5.26	5.26	10	3.4	47

Svarn Defence Standard 61-12 Part-18 Single Core Cables - 1000 Volts

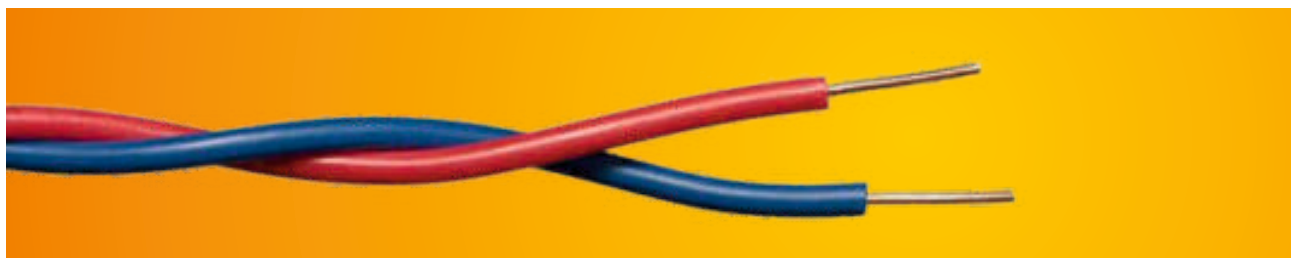
PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY1C0.013	0.13	26	1	2.4
FGCBPCYY1C0.2	0.2	24	1.2	3.6
FGCBPCYY1C0.33	0.33	22	1.4	5.3
FGCBPCYY1C0.52	0.52	20	1.6	7.7
FGCBPCYY1C0.82	0.82	18	1.9	11.6
FGCBPCYY1C1.31	1.31	16	2.1	14.7
FGCBPCYY1C2.08	2.08	14	2.6	22
FGCBPCYY1C3.31	3.31	12	3	32.9
FGCBPCYY1C5.26	5.26	10	3.8	53
FGCBPCYY1C8.37	8.37	8	5.3	92

Svarn Defence Standard 61-12 Part-18 Single Core Cables - 2500 Volts

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY1C0.013	0.13	26	1.4	3.2
FGCBPCYY1C0.2	0.2	24	1.5	4.6
FGCBPCYY1C0.33	0.33	22	1.8	6.6
FGCBPCYY1C0.52	0.52	20	2	9.5
FGCBPCYY1C0.82	0.82	18	2.3	13
FGCBPCYY1C1.31	1.31	16	2.5	17
FGCBPCYY1C2.08	2.08	14	3	25
FGCBPCYY1C3.31	3.31	12	3.4	37
FGCBPCYY1C5.26	5.26	10	4.2	56
FGCBPCYY1C8.37	8.37	8	5.6	97

Svarn Defence Standard 61-12 Part-18 Two Core Cables – 600 Volts

Svarn Defence Standard 61-12 Part-18 Cables are designed for wiring between components, instruments and electrical equipment. They are majorly used in aircraft, computers, military vehicles, military equipment, ships, mass transit, offshore platforms and automobiles.



CABLE STRUCTURE

- Annealed tinned copper conductor/ silver coated copper/ nickel coated copper
- Radiation cross linked specially formulated polyalkene insulation

TECHNICAL DATA

- Nominal voltage: 600 to 1000 volts
- Temperature range: -65°C to +150°C
- Tensile strength: 28N/mm²
- As per Def. Stan 61-12 Part 18

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/ underground installation
- Oil/ chemical resistant
- Resistant to soldering iron & overload
- High flexibility
- Low smoke emission
- High flame resistant
- RoHS compliant

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.013	0.051	30	1.4	2.4
FGCBPCYY2C0.2	0.08	28	1.6	3.2
FGCBPCYY2C0.013	0.13	26	1.8	4.5
FGCBPCYY2C0.2	0.2	24	2.1	6.8
FGCBPCYY2C0.33	0.33	22	2.45	10
FGCBPCYY2C0.52	0.52	20	2.85	15
FGCBPCYY2C0.82	0.82	18	3.34	22.4
FGCBPCYY2C1.31	1.31	16	3.7	28.5
FGCBPCYY2C2.08	2.08	14	4.6	44.6
FGCBPCYY2C3.31	3.31	12	5.6	70

Svarn Defence Standard 61-12 Part-18 Single Core Cables – 600 Volts

Svarn Defence Standard 61-12 Part-18 Cables are designed for wiring between components, instruments and electrical equipment. They are vastly used in aircrafts, computers, military vehicles, military equipment, military electronics, helicopters, satellites, ships, mass transit and automobiles.



CABLE STRUCTURE

- Annealed tinned copper conductor/ silver coated copper/ nickel coated copper
- Radiation cross linked specially formulated polyalkene insulation
- Annealed tinned copper shielding
- Radiation cross linked improved PVDF outer sheath

TECHNICAL DATA

- Nominal voltage : 600 to 1000 volts
- Temperature range : -65°C to +150°C
- Tensile strength : 28N/mm²
- As per Def. Stan 61-12 Part 18

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant Ft2
- Heat & moisture resistant
- Suitable for direct burial/ underground installation
- High chemical resistance to acids, lubricants, missile fuel, etc
- Resistant to soldering iron & overload
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.051	0.051	30	1.2	5.0
FGCBPCYY2C0.08	0.08	28	1.3	5.6
FGCBPCYY2C0.013	0.13	26	1.4	6.64
FGCBPCYY2C0.2	0.2	24	1.65	8.4
FGCBPCYY2C0.33	0.33	22	1.90	10.5
FGCBPCYY2C0.52	0.52	20	2.00	14.5
FGCBPCYY2C0.82	0.82	18	2.40	20.4
FGCBPCYY2C1.31	1.31	16	2.64	24.2
FGCBPCYY2C2.08	2.08	14	3.00	33.8
FGCBPCYY2C3.31	3.31	12	3.5	47.5

Svarn Defence Standard 61-12 Part-18 Single Core Shielded Cables – 600 to 1000 Volts

Svarn Defence Standard 61-12 Part-18 Cables are designed for wiring between components, instruments and electrical equipment. They are majorly used in aircrafts, computers, military vehicles, military equipment, military electronics, helicopters, satellites, ships, mass transit and automobiles.



CABLE STRUCTURE

- Annealed tinned copper conductor/ silver coated copper/ nickel coated copper
- Radiation cross linked specially formulated polyalkene insulation
- Second layer of insulation of cross linked
- Annealed tinned copper shielding
- Radiation cross linked improved PVDF outer sheath

TECHNICAL DATA

- Nominal voltage: 600 to 1000 volts
- Temperature range: -65°C to +150°C
- Tensile strength: 28N/mm²
- As per Def. Stan 61-12 Part 18

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/ underground installation
- High chemical resistance to acids, lubricants, missile fuel, etc
- Resistant to soldering iron & overload
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Svarn Defence Standard 61-12 Part-18 Single Core Shielded Cables - 600 Volts

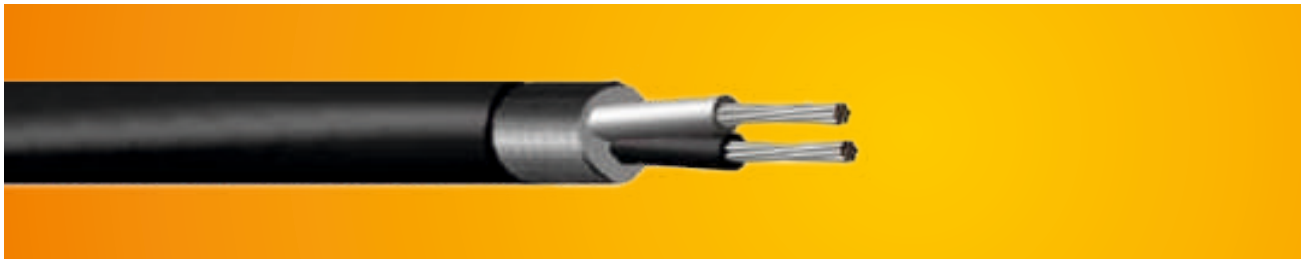
PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.2	0.2	24	2.1	11.5
FGCBPCYY2C0.33	0.33	22	2.45	15.2
FGCBPCYY2C0.52	0.52	20	2.6	18.9
FGCBPCYY2C0.82	0.82	18	2.8	23.9
FGCBPCYY2C1.31	1.31	16	3.0	27.9
FGCBPCYY2C2.08	2.08	14	3.5	38.50
FGCBPCYY2C3.31	3.31	12	4.1	52.1

Svarn Defence Standard 61-12 Part-18 Single Core Shielded Cables - 1000 Volts

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.08	0.08	28	1.6	5.4
FGCBPCYY2C0.013	0.13	26	1.65	6.6
FGCBPCYY2C0.2	0.2	24	1.9	9.4
FGCBPCYY2C0.33	0.33	22	2.1	12.1
FGCBPCYYSC0.52	0.52	20	2.4	17.2
FGCBPCYY1C0.82	0.82	18	2.8	22.4
FGCBPCYY1C1.31	1.31	16	3	26.4
FGCBPCYY1C2.08	2.08	14	3.4	35.9
FGCBPCYY1C3.31	3.31	12	3.9	49.2

Svarn Defence Standard 61-12 Part-18 Two Core Shielded Cables – 600 Volts

Svarn Defence Standard 61-12 Part-18 Cables are designed for wiring between components, instruments and electrical equipment. They are majorly used in aircrafts, computers, military vehicles, military equipment, military electronics, helicopters, satellites, ships, mass transit and automobiles.



CABLE STRUCTURE

- Annealed tinned copper conductor/ silver coated copper/ nickel coated copper
- 2. Radiation cross linked specially formulated polyalkene insulation.
- 3. Annealed tinned copper shielding
- 4. Radiation cross linked improved PVDF outer sheath.

TECHNICAL DATA

- Nominal voltage: 600 volts
- Temperature range: -65°C to +150°C
- Tensile strength: 28N/mm²
- As per Def. Stan 61-12 Part 18

FEATURES

- UV resistant
- Sunlight resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Suitable for direct burial/ underground installation
- High chemical resistance to acids, lubricants, missile fuel, etc
- Resistant to soldering iron & overload
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

PART NUMBER	NOMINAL CROSS SECTIONAL AREA (mm ²)	SIZE OF WIRE (AWG)	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPCYY2C0.2	0.2	24	2.1	11.5
FGCBPCYY2C0.33	0.33	22	2.45	15.2
FGCBPCYY2C0.52	0.52	20	2.6	18.9
FGCBPCYY2C0.82	0.82	18	2.8	23.9
FGCBPCYY2C1.31	1.31	16	3.0	27.9
FGCBPCYY2C2.08	2.08	14	3.5	38.50
FGCBPCYY2C3.31	3.31	12	4.1	52.1

Svarn Defence Standard 61-12 Part-25/2 Multicore Unscreened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Multicore Unscreened 0.2 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C0.2	0.2	2	4.2	24
FGCBPC3C0.2	0.2	3	4.5	29
FGCBPC4C0.2	0.2	4	5.2	34
FGCBPC7C0.2	0.2	7	6.8	45
FGCBPC14C0.2	0.2	14	7.1	75
FGCBPC24C0.2	0.2	24	8.2	117
FGCBPC27C0.2	0.2	27	9.3	162
FGCBPC44C0.2	0.2	44	10.8	193

Multicore Unscreened 0.35 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3C0.35	0.35	3	4.4	34
FGCBPC7C0.35	0.35	7	5.8	57
FGCBPC14C0.35	0.35	14	7.1	97
FGCBPC19C0.35	0.35	19	7.5	127
FGCBPC24C0.35	0.35	24	9.2	157
FGCBPC37C0.35	0.35	37	10.3	218
FGCBPC44C0.35	0.35	44	11.5	282



Multicore Unscreened 0.6 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C0.6	0.6	2	4.9	35
FGCBPC3C0.6	0.6	3	5.2	46
FGCBPC4C0.6	0.6	4	5.9	56
FGCBPC7C0.6	0.6	7	6.3	83
FGCBPC14C0.6	0.6	14	8.4	152
FGCBPC19C0.6	0.6	19	9.3	193
FGCBPC24C0.6	0.6	24	10.5	238
FGCBPC37C0.6	0.6	37	12.6	343

Multicore Unscreened 1.0 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C1.0	1.0	2	5.5	48
FGCBPC3C1.0	1.0	3	5.9	61
FGCBPC4C1.0	1.0	4	6.3	73
FGCBPC7C1.0	1.0	7	7.2	112
FGCBPC10C1.0	1.0	10	9.1	157
FGCBPC14C1.0	1.0	14	9.8	207
FGCBPC19C1.0	1.0	19	10.5	267
FGCBPC24C1.0	1.0	24	12.5	338
FGCBPC37C1.0	1.0	37	14.4	503

Multicore Unscreened 1.5 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C1.5	1.5	2	5.9	59
FGCBPC3C1.5	1.5	3	6.3	76
FGCBPC7C1.5	1.5	7	7.8	146
FGCBPC14C1.5	1.5	14	11.4	277
FGCBPC24C1.5	1.5	24	14.8	462

Multicore Unscreened 2.5 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C2.5	2.5	2	7.2	95
FGCBPC3C2.5	2.5	3	7.9	127
FGCBPC7C2.5	2.5	7	10	263
FGCBPC14C2.5	2.5	14	14.2	502
FGCBPC24C2.5	2.5	24	18.4	835

Svarn Defence Standard 61-12 Part-25/2 Multicore Collectively Screened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Tinned copper braided screening
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Multicore Collectively Screened 0.2 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C0.2	0.2	2	4.5	35
FGCBPC3C0.2	0.2	3	4.9	39
FGCBPC4C0.2	0.2	4	5.2	47
FGCBPC7C0.2	0.2	7	6.8	62
FGCBPC14C0.2	0.2	14	7.1	103
FGCBPC19C0.2	0.2	19	8.2	124
FGCBPC24C0.2	0.2	24	9.3	148

Multicore Collectively Screened 0.35 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C0.35	0.35	2	5.2	52
FGCBPC3C0.35	0.35	3	5.8	59
FGCBPC7C0.35	0.35	7	6.2	100
FGCBPC14C0.35	0.35	14	7.8	162
FGCBPC19C0.35	0.35	19	8.5	192
FGCBPC24C0.35	0.35	24	9.8	223
FGCBPC37C0.35	0.35	37	10.8	297
FGCBPC44C0.35	0.35	44	12.5	378

Multicore Collectively Screened 0.6 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C0.6	0.6	2	5.8	56
FGCBPC3C0.6	0.6	3	6.4	63
FGCBPC4C0.6	0.6	4	6.9	75
FGCBPC7C0.6	0.6	7	7.4	105
FGCBPC14C0.6	0.6	14	9.8	178
FGCBPC24C0.6	0.6	24	11.5	275

Multicore Collectively Screened 1.0 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	NUMBER OF CORES	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2C1.0	1.0	2	5.9	93
FGCBPC3C1.0	1.0	3	6.5	106
FGCBPC7C1.0	1.0	7	7.9	173
FGCBPC14C1.0	1.0	14	11.5	284

Svarn Defence Standard 61-12 Part-25/2 Multipair Collectively Screened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Tinned copper braided screening
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Multipair Collectively Screened 0.35 sqmm

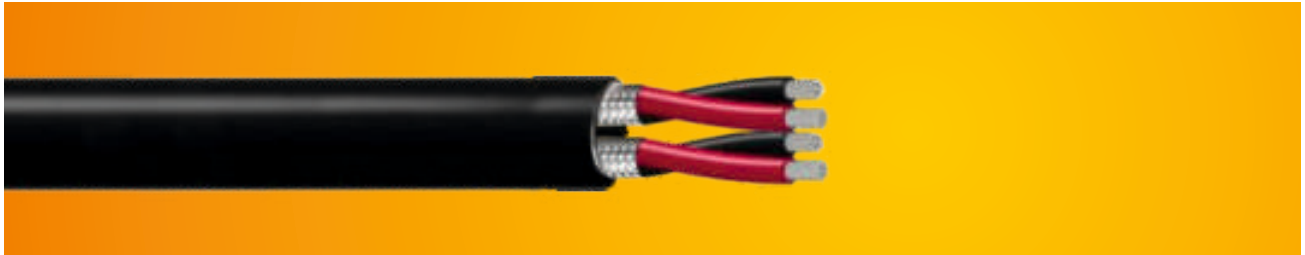
PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3P0.35	0.35	3x2	7.5	112
FGCBPC5P0.35	0.35	5x2	8.4	147
FGCBPC7P0.35	0.35	7x2	9.2	172
FGCBPC12P0.35	0.35	12x2	11.5	257
FGCBPC19P0.35	0.35	19x2	13.5	377
FGCBPC27P0.35	0.35	27x2	15.8	492
FGCBPC37P0.35	0.35	37x2	17.8	643

Multipair Collectively Screened 1.0 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3P1.0	1.0	3x2	9.2	177
FGCBPC5P1.0	1.0	5x2	11.3	247
FGCBPC7P1.0	1.0	7x2	12.2	303
FGCBPC12P1.0	1.0	12x2	15.4	504
FGCBPC19P1.0	1.0	19x2	17.5	704
FGCBPC27P1.0	1.0	27x2	21.4	985

Svarn Defence Standard 61-12 Part-25/2 Multipair Individually Screened Cables - 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Tinned copper braided screening
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Multipair Individually Screened 0.35 sqmm

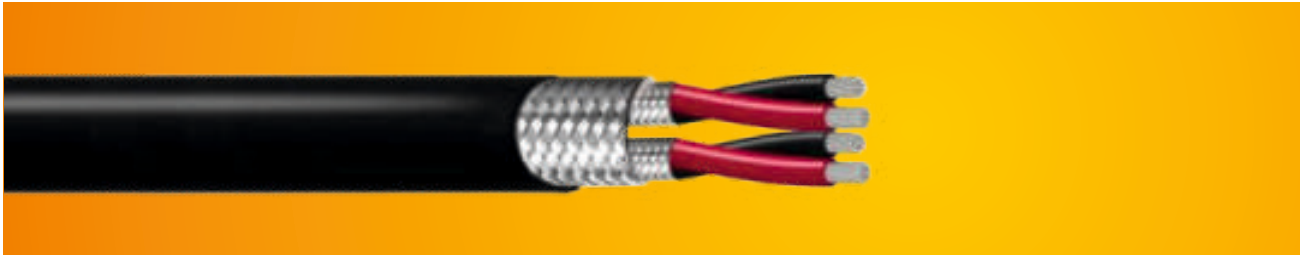
PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3P0.35	0.35	3x2	9.2	133
FGCBPC5P0.35	0.35	5x2	11.4	204
FGCBPC7P0.35	0.35	7x2	12.4	264

Multipair Individually Screened 1.0 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3P1.0	1.0	3x2	11.2	213
FGCBPC5P1.0	1.0	5x2	14.5	322
FGCBPC7P1.0	1.0	7x2	15.4	424

Svarn Defence Standard 61-12 Part-25/2 Multipair Individually & Collectively Screened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Tinned copper braided screening
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

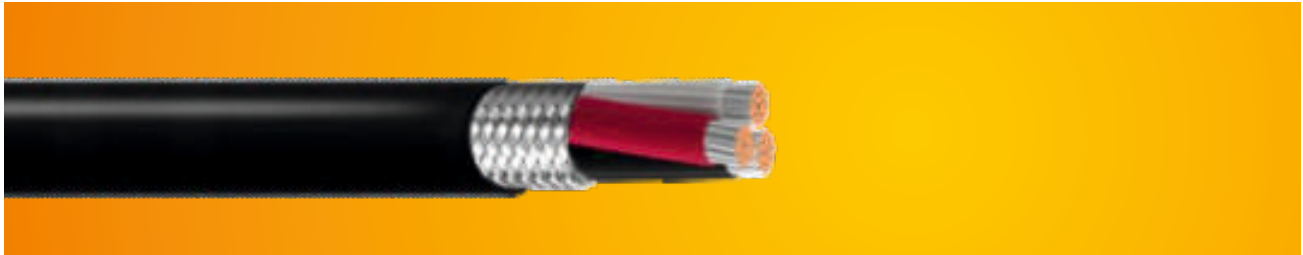
- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Multipair Individually and Collectively Screened 0.35 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3P0.35	0.35	3x2	10.2	223
FGCBPC5P0.35	0.35	5x2	12.4	318
FGCBPC7P0.35	0.35	7x2	13.2	404
FGCBPC12P0.35	0.35	12x2	15.6	628
FGCBPC19P0.35	0.35	19x2	18.8	978
FGCBPC27P0.35	0.35	27x2	23.5	1334

Svarn Defence Standard 61-12 Part-25/2 Multi-triple Collectively Screened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Tinned copper braided screening
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

Multipair Individually and Collectively Screened 0.35 sqmm

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC2T0.35	0.35	2x3	8.5	122
FGCBPC3T0.35	0.35	3x3	9.2	153
FGCBPC4T0.35	0.35	4x3	9.9	182
FGCBPC7T0.35	0.35	7x3	11.5	253

Svarn Defence Standard 61-12 Part-25/2 Three Core Unscreened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

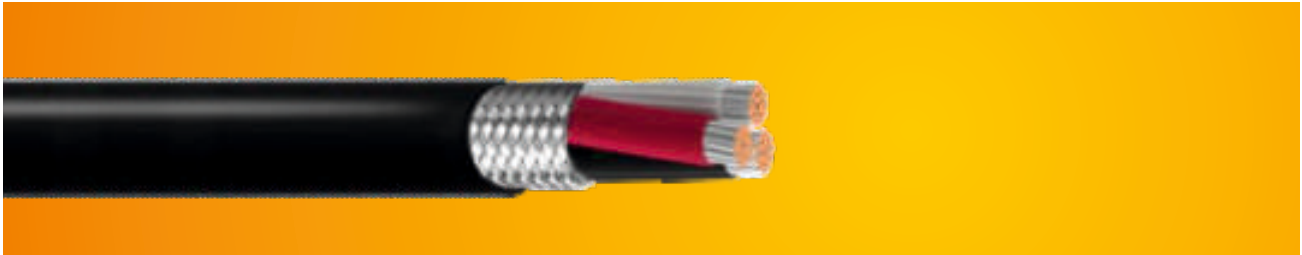
FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3C0.6	0.6	3	5.2	46
FGCBPC3C1.0	1.0	3	5.8	60
FGCBPC3C1.5	1.5	3	6.2	77
FGCBPC3C2.5	2.5	3	7.5	127

Svarn Defence Standard 61-12 Part-25/2 Three Core Collectively Screened Cables – 600 Volts

Svarn Defence Standard 61-12 Part-25/2 Cables are designed for wiring between components, instruments and electrical equipment for power transmission and control. They are majorly used in ships, mass transit and marine vehicles.



CABLE STRUCTURE

- Electroplated annealed tinned flexible copper conductor
- Limited fire hazard insulation
- Tinned copper braided screening
- Limited fire hazard outer sheath complying with LFH Def. Stan 61-12 Part 31 material

TECHNICAL DATA

- Nominal voltage: 600 volts
- Test voltage: 1500 volts
- Temperature range : -30°C to +85°C
- Bending radius: 10x cable dia
- As per Def. Stan 61-12 Part 25/2

FEATURES

- UV resistant
- Sunlight resistant
- Heat & moisture resistant
- Limited fire hazard
- Halogen free
- Oil & chemical resistant
- High flexibility
- Low smoke emission & high flame resistant
- RoHS compliant

PART NUMBER	NOMINAL SIZE OF CONDUCTOR (mm ²)	PAIRS	MINIMUM OVERALL DIA (mm)	NOMINAL WEIGHT (kg/km)
FGCBPC3C1.0	1.0	3	6.8	99
FGCBPC3C1.5	1.5	3	7.5	107
FGCBPC3C2.5	2.5	3	8.6	148

COMPREHENSIVE CABLING SOLUTIONS FOR DEFENCE APPLICATIONS

CONTROL CABLES

Svarn flexible shielded cables, ranging from 2 to 100 cores, efficiently transport energy, ranging from 300 volts to 1kV, along with low-frequency signals essential for controlling motor drives or generators. These cables play a crucial role in tasks such as breaking, positioning, or optimising rotor RPMs. Special sheathing is available for ultra-low temperatures, while smaller cables are halogen-free. Our torsion- and oil-resistant cables are designed to last for 20 years and more.

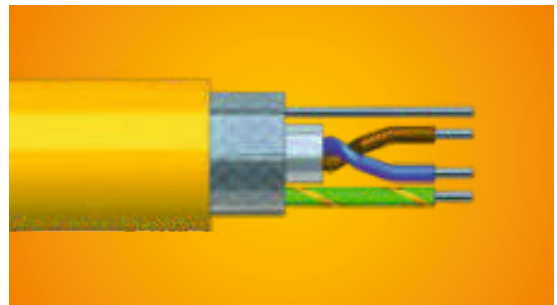


FIRE RESISTANT CABLES

Ensuring continuous functionality during emergencies is critical in any projects. Svarn leads in fire-resistant cable technology, crafting control and power cables specifically for safety systems like emergency lighting, fire detection, and door-opening mechanisms. These cables maintain electrical circuit integrity for a defined duration post-fire, enhancing safety for both personnel and the plant itself. Svarn's fire-resistant cables are instrumental in safeguarding lives and infrastructure within defence facilities.

FIELDBUS, COAXIAL CABLES

Can Bus or Profibus cables ensure precise control over functions such as motor operation, rudder adjustment, and hydraulic systems with their fixed impedance and accurate digital signal transmission. Coaxial cables handle high-frequency data transmission for communication equipment, and instrumentation onboard, while also delivering video signals for surveillance cameras.



LOW-VOLTAGE 120°C FLEXIBLE CABLES WITH EMC

Svarn manufactures LV silicone cables designed specifically for military applications, and ideal for connecting generators to transformers. These cables are engineered to withstand extreme heat up to 120°C and are available in a Low-Smoke Zero-Halogen (LSZH) version for added safety.

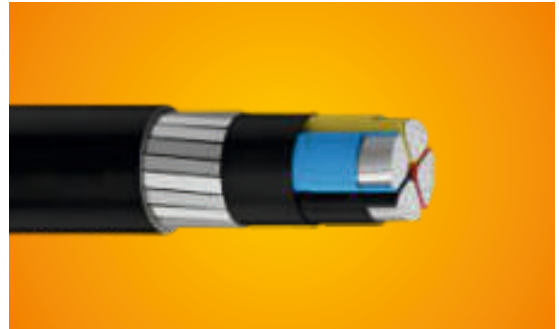
FIBER-OPTIC CABLES

To ensure high data transmission capacity for monitoring and control, Svarn's rugged, halogen-free fibre-optic cables offer Electromagnetic Compatibility (EMC) in energy-dense areas. They are very flexible and can handle high torsion. Large cores (200 microns) make connectivity easier.



POWER & CONTROL CABLES

Svarn unarmoured power and control cables are used for wiring fixed installations not subject to mechanical risks, while armoured cables are recommended for areas where enhanced mechanical protection and electrical screening (Electromagnetic Compatibility) are required. The highly flexible range of cables is recommended for installations and connections in narrow spaces where an optimal bending radius is required. The sectoral conductors of multicore cables provide further space and weight savings on the cable trays.



LOW-VOLTAGE LOOP RUBBER CABLES

These cables (up to 1kV) reliably transmit energy produced in the generator to the transformer. They come in Low-Smoke Zero-Halogen (LSZH) versions and are also oil, abrasion, UV and ozone-resistant. Before supply, Svarn rigorously tests these cables for lifetime durability, adhering to strict movement and torsion standards.

LOW-VOLTAGE FIXED INSTALLATION CABLES

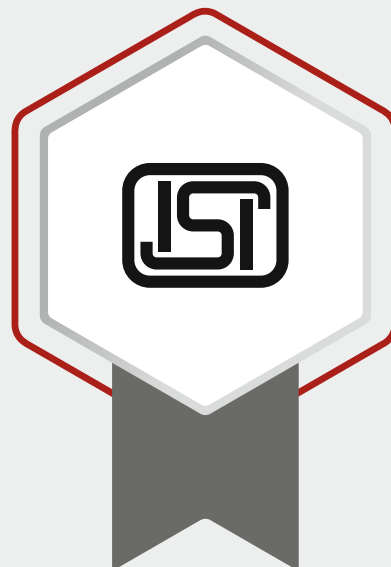
Svarn LV aluminum cables, whether single or multicore, offer EMC screening. Compared to copper, aluminum single cores are larger yet weigh half as much, making them cost-effective and easier to handle during installation.



ELECTRONIC AND DATA TRANSMISSION CABLES

Thermoplastic Modified (TPM) 2 to 5-core sensor multicore and multipair cables measure water speed, temperatures, and performance parameters, while 2-core Fieldbus cables are used in parallel with energy cables to digitally control all electronic and mechanical devices. 2-core Profibus cables deliver up to 12 Mbit/s for complex control services; and data transmission cables offer Industrial Ethernet speed. Increasingly, all cables are shielded for EMC protection.

QUALITY PAR EXCELLENCE







SVARN GROUP

Inspired by possibilities



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CORPORATE OFFICE

Plot No. 1, Site No. 1, 14/3, Mathura Road,
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WORKS

Haryana
74th Milestone, Delhi-Mathura Road,
Hodal Toll Plaza, Distt. Palwal-121005

Rajasthan

Plot No. SP5 - 249, 250, RIICO Industrial Area,
Ghiloth, Neemrana, Alwar - 301705

Maharashtra

Gat No. 153/1/1, Village Ambethan, Taluka Khed
(near Dwarka School), Pune - 410501

Uttarakhand

Plot No. 68, 69, 71, 72 & 73, Sector-5, IIE,
Sidcul, Haridwar-249403

ASIA

SINGAPORE

SVARN PTE. LTD.: 7 Temasek Boulevard, #12-07,
Suntec Tower One, Downtown Core, 038987, Singapore

THAILAND

SVARN INFRA (THAILAND) CO LTD: 3656/50,
Green Tower Building, Floor 16th, Rama 4 Road,
Klongton Subdistrict, Klongton District, Bangkok 10110

INDONESIA

PT SVARN GROUP INDONESIA: Innovation Center,
Jababeka Industrial Estate 6, Jl. Samsung,
Block A 3A, Cikarang Utara 17530

VIETNAM

SVARN GROUP LLC: 12B Floor, Cienco 4 Building,
180 Nguyen Thi Minh Khai, Vo Thi Sau Ward,
District 3, Ho Chi Minh City, Vietnam

Contact: Paresh Gupta

M: +91 98107 94010 | E: paresh@svarn.com

MIDDLE EAST

DUBAI

SVARN MIDDLE EAST DWC-LLC
O465, Floor C4, Office Park,
Dubai South, UAE

Contact: J.K. Mishra

M: +971 50118 7209

E: jkmishra@svarn.com