

VINDHYA TELELINKS LIMITED



OFFSHORE, MARINE, SHIPBOARD & BOAT CABLES

Vindhya Telelinks Ltd. (VTL) belongs to the prestigious M.P. Birla Group, a century-old business conglomerate enjoying an excellent market reputation built on superior product quality and strong customer support. The Group has been a pioneer in the power and telecommunication cable industry, consistently setting benchmarks for reliability and performance.

Under the umbrella of the M.P. Birla Group, VTL has earned an enviable reputation and leadership position in the market, with a satisfied customer base across both domestic and international markets.

The company possesses multiple system certifications, including ISO 9001:2015, ISO 14001:2015, ISO 22301:2019, ISO 45001:2018, ISO 22163:2023, TL 9001, and ISO 27001:2022, and is recognized as one of the largest and most reputed manufacturers of Copper Telecom Cables, Optical Fibre Cables, and Railway Signalling/Quad Cables, catering to diverse industry segments.

In view of the increasing demand for E-Beam Cables in India, the company has diversified into the manufacturing of Electron Beam Crosslinked Cables by establishing a state-of-the-art manufacturing facility at Rewa (M.P.). The facility is equipped with 2.0 MeV and 3.0 MeV Electron Beam Accelerators, along with suitably designed handling systems, enabling irradiation of electrical and automotive cables and wires, PE sheets, polymeric tubes and pipes, heat-shrink products, gems and diamonds, and medical products for sterilization.

VTL Marine Cable Products – Brief Overview

VTL manufactures a comprehensive range of marine power, control, instrumentation, and data transmission cables designed for fixed and mobile marine and offshore installations, where high reliability and continuous operation are essential.

These cables are engineered to operate reliably under severe environmental conditions, including extreme ambient temperatures (hot and cold climates), high humidity, oil exposure, and saline atmospheres typically encountered in marine and offshore applications. In marine environments, where equipment accessibility is limited and downtime is unacceptable, VTL marine cables provide long-term performance stability and operational safety.

VTL's in-house R&D and compounding facilities enable the development of XLPO and elastomeric insulation systems with electron-beam cross-linked (EBXL) jackets, delivering superior thermal endurance, electrical integrity, mechanical strength, and resistance to weathering, chemicals, and ageing. These materials ensure sustained performance throughout the service life of the cable without cracking, degradation, or loss of properties.

Product Range:

- Single Core EBXL Marine Power Cables
- Multicore EBXL Marine Power Cables
- Control, Instrumentation, and Data Transmission Cables

VTL marine cables are halogen-free, flame-retardant, low smoke, and environment-friendly, complying with RoHS requirements in accordance with European directives. The cables are designed for ease of installation, flexibility, and robustness, and are suitable for compliance with relevant IEC, IEEE, DNV, ABS, and other international marine and offshore standards, as applicable. Performance and quality are benchmarked against leading global marine cable manufacturers.

TABLE 1: MULTIPAIR CABLES – COLLECTIVELY SCREENED 0.2 mm²
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink Polyolefin compound
3. Pairs Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Separator Tape – Polyester tape
6. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ / U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020880	1P X 0.2	19 x 0.12	4.5 / 5.0	95.6	0.8	40
N6145020881	2P X 0.2	19 x 0.12	6.7 / 7.0	95.6	0.7	70
N6145020882	3P X 0.2	19 x 0.12	6.8 / 7.3	95.6	0.6	80
N6145020883	5P X 0.2	19 x 0.12	7.9 / 8.4	95.6	0.5	110

TABLE 2: MULTIPAIR INDIVIDUALLY SCREENED PLUS UNSCREENED QUAD CABLES, COLLECTIVELY SCREENED 0.2mm²

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Screen Insulation – Electron Beam crosslink Polyolefin compound
6. Pairs Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ / U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020884	2P X 0.2	19 x 0.12	9.4 / 10.4	95.6	2.0	130
N6145020885	2P X 0.2	19 x 0.12	9.6 / 11.1	95.6	1.0	165

TABLE 3: MULTIPAIR INDIVIDUALLY SCREENED PLUS UNSCREENED MULTIPAIR CABLES, COLLECTIVELY SCREENED 0.6 mm², 600V

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Screen Insulation – Electron Beam crosslink Polyolefin compound
6. Pairs Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ / U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius – Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020886	2P X 0.6	19 x 0.2	11.2 / 12.6	33.2	3.0	200

**TABLE 4: MULTIPAIR INDIVIDUALLY SCREENED PLUS UNSCREENED MULTIPAIRS
CABLES, 0.6 mm², 600V**

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Screen Insulation – Electron Beam crosslink Polyolefin compound
6. Pairs Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ / U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020887	6P X 0.6	19 x 0.2	11.4 / 12.5	33.2	2.0	170

TABLE 5: MULTIQUAD INDIVIDUALLY SCREENED CABLES, 0.2MM², 600V
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Screen Insulation – Electron Beam crosslink Polyolefin compound
6. Pairs Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020888	7q X 0.2	19 x 0.12	14.1 / 15.5	95.6	0.4	330

TABLE 6: 5 CORE CABLE, 1 PAIR INDIVIDUALLY SCREENED 0.2 mm², 600V

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Screen Insulation – Electron Beam crosslink Polyolefin compound
6. Pairs Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020889	1P +3C X 0.2	19 x 0.12	6.6 / 8.0	95.6	0.65	76

TABLE 7: MULTICORE CABLE, COLLECTIVELY SCREENED 0.35 mm², 600V
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020890	12C X 0.35	19 x 0.15	7.6 / 9.0	60	4.9	125

TABLE 8: MULTICORE CABLE, COLLECTIVELY SCREENED 0.6 mm², 600V
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020891	4C X 0.6	19 x 0.2	5.7 / 6.5	33.2	10.5	67

TABLE 9: MULTICORE CABLE, COLLECTIVELY SCREENED 1.5 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020892	2C X 1.5	19 x 0.3	5.8 / 6.5	14.5	15.2	70

TABLE 10: MULTICORE CABLES, DOUBLE COLLECTIVELY SCREENED 0.6 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Braiding – Annealed Tinned Copper Braid (95% Coverage)
7. Separator Tape – Polyester tape
8. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020893	3C X 0.6	19 x 0.2	4.9 / 5.3	33.2	9.8	70
N6145020894	6C X 0.6	19 x 0.2	7.6 / 8.0	33.2	8.5	121
N6145020895	2C X 0.6	19 x 0.2	4.8 / 6.2	33.2	11.0	60

TABLE 11: MULTIPAIR CABLES, DOUBLE INDIVIDUAL SCREENS AND COLLECTIVELY SCREENED 0.6 mm², 600V

Specification: EED – 50 -12 (Rev.3)

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Pairs Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020896	9P X 0.6	19 x 0.2	20.7 / 21.9	33.2	6.7	699
N6145020897	19P X 0.6	19 x 0.2	25.7 / 26.9	33.2	6.0	1300
New Addition	6P X 1.5	19 x 0.3	18.5 / 20.5	14.7	14.7	685

**TABLE 12: MULTIPAIR CABLES, INDIVIDUAL SCREENS AND COLLECTIVE SUPER
SCREEN 0.35 mm², 600V**

Specification: EED – 50 -12 (Rev.3)

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Pairs Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Separator Tape – Metal tape
6. Braiding – Annealed Tinned Copper Braid (95% Coverage)
7. Separator Tape – Polyester tape
8. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020898	19P X 0.6	19 x 0.15	18.8 / 20.8	60	4.0	724

TABLE 13: MULTICORE CABLES – UNSCREENED - 0.2 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020899	3C X 0.2	19 x 0.12	3.95 / 5.05	92.2	5.2	32
N6145020900	7C X 0.2	19 x 0.12	4.70 / 5.90	92.2	4.5	46
N6145020901	14C X 0.2	19 x 0.12	6.00 / 7.40	92.2	3.7	76
N6145020902	24C X 0.2	19 x 0.12	7.60 / 9.0	92.2	3.3	115
N6145020903	37C X 0.2	19 x 0.12	3.95 / 5.05	92.2	3.0	160
N6145020904	44C X 0.2	19 x 0.12	3.95 / 5.05	92.2	3.0	190

TABLE 14: MULTICORE CABLES – UNSCREENED - 0.35 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020905	3C X 0.35	19 x 0.15	4.25 / 5.4	58.9	6.9	38
N6145020906	7C X 0.35	19 x 0.15	5.15 / 6.45	58.9	5.9	56
N6145020907	14C X 0.35	19 x 0.15	6.70 / 8.10	58.9	5.0	95
N6145020908	19C X 0.35	19 x 0.15	7.25 / 8.75	58.9	4.5	125
N6145020909	24C X 0.35	19 x 0.15	8.50 / 10.1	58.9	4.5	155
N6145020910	37C X 0.35	19 x 0.15	9.55 / 11.45	58.9	4.0	215
N6145020911	44C X 0.35	19 x 0.15	10.8 / 12.8	58.9	4.0	280
New Addition	18C X 0.35	19 x 0.15	7.25 / 8.75	58.9	4.5	120

TABLE 15: MULTICORE CABLES – UNSCREENED - 0.5 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020912	3C X 0.5	19 x 0.18	4.6 / 5.8	40.1	9.8	45
N6145020913	7C X 0.5	19 x 0.18	5.6 / 6.9	40.1	8.5	75
N6145020914	14C X 0.5	19 x 0.18	7.55 / 9.0	40.1	7.0	130
N6145020915	19C X 0.5	19 x 0.18	8.2 / 9.7	40.1	6.3	165
N6145020916	24C X 0.5	19 x 0.18	9.4 / 11.2	40.1	6.3	220
N6145020917	37C X 0.5	19 x 0.18	10.8 / 12.7	40.1	5.6	310

TABLE 16: MULTICORE CABLES – UNSCREENED - 0.75 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020918	2C X 0.75	19 x 0.22	4.8 / 6.0	26.7	13.6	46
N6145020919	3C X 0.75	19 x 0.22	5.0 / 6.2	26.7	12.0	55
N6145020920	4C X 0.75	19 x 0.22	5.4 / 6.7	26.7	12.0	68
N6145020921	7C X 0.75	19 x 0.22	6.15 / 7.13	26.7	10.2	96
N6145020922	10C X 0.75	19 x 0.22	8.45 / 9.35	26.7	8.5	143
N6145020923	14C X 0.75	19 x 0.22	8.45 / 9.90	26.7	8.5	180
N6145020924	19C X 0.75	19 x 0.22	9.20 / 11.0	26.7	7.5	220
N6145020925	24C X 0.75	19 x 0.22	10.8 / 12.6	26.7	7.5	275
N6145020926	37C X 0.75	19 x 0.22	12.45/14.40	26.7	6.8	400

TABLE 17: MULTICORE CABLES – UNSCREENED – 1.0 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020927	2C X 1.0	19 x 0.25	5.1 / 6.3	22.2	15.2	47
N6145020928	3C X 1.0	19 x 0.25	5.35 / 6.55	22.2	13.3	59
N6145020929	7C X 1.0	19 x 0.25	6.65 / 7.95	22.2	11.4	110
N6145020930	14C X 1.0	19 x 0.25	9.05 / 10.5	22.2	9.5	205
N6145020931	24C X 1.0	19 x 0.25	11.7 / 13.5	22.2	8.5	235

TABLE 18: MULTICORE CABLES – UNSCREENED – 1.5 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020932	2C X 1.5	19 x 0.30	5.8 / 6.8	14.7	20.0	70
N6145020933	3C X 1.5	19 x 0.30	5.9 / 7.1	14.7	17.5	85
N6145020934	7C X 1.5	19 x 0.30	7.4 / 8.7	14.7	15.0	145
N6145020935	14C X 1.5	19 x 0.30	10.15 / 11.8	14.7	12.5	275
N6145020936	24C X 1.5	19 x 0.30	13.4 / 15.2	14.7	11.2	450

**TABLE 19: MULTICORE CABLES - EXTRA THIN WALL INSULATED, COLLECTIVELY
SCREENED 0.35 mm², 600V**

Specification: EED – 50 -12 (Rev.3)

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020937	2C X 0.35	19 x 0.15	4.8 / 6.3	60	7.9	47
N6145020938	3C X 0.35	19 x 0.15	5.0 / 6.5	60	6.9	57
N6145020939	4C X 0.35	19 x 0.15	5.3 / 7.0	60	6.9	78
N6145020940	7C X 0.35	19 x 0.15	6.0 / 7.6	60	5.9	98
N6145020941	14C X 0.35	19 x 0.15	7.7 / 9.4	60	4.9	140
N6145020942	18C X 0.35	19 x 0.15	8.3 / 10.1	60	4.5	165
N6145020943	19C X 0.35	19 x 0.15	8.3 / 10.1	60	4.5	170
N6145020944	24C X 0.35	19 x 0.15	9.3 / 11.4	60	4.5	205
N6145020945	37C X 0.35	19 x 0.15	10.6 / 12.8	60	4.0	295
N6145020946	44C X 0.35	19 x 0.15	11.8 / 14.1	60	4.0	330

Cable with larger braid wire diameter:

Part No.	Number of Cores x Cross- section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020947	2C X 0.35	19 x 0.15	5.8 / 7.3	60	7.9	76
N6145020948	3C X 0.35	19 x 0.15	6.0 / 7.5	60	6.9	87
N6145020949	4C X 0.35	19 x 0.15	6.3 / 8.0	60	6.9	101
N6145020950	7C X 0.35	19 x 0.15	7.0 / 8.6	60	5.9	123
N6145020951	14C X 0.35	19 x 0.15	8.7 / 10.4	60	4.9	187
N6145020952	18C X 0.35	19 x 0.15	9.3 / 11.1	60	4.5	214
N6145020953	19C X 0.35	19 x 0.15	9.3 / 11.1	60	4.5	223
N6145020954	24C X 0.35	19 x 0.15	10.3 / 12.4	60	4.5	256
N6145020955	37C X 0.35	19 x 0.15	11.6 / 13.8	60	4.0	345
N6145020956	44C X 0.35	19 x 0.15	12.8 / 15.1	60	4.0	423

TABLE 20: MULTICORE CABLES - COLLECTIVELY SCREENED 0.75 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020957	2C X 0.75	19 x 0.22	5.5 / 7.0	26.7	14	80
N6145020958	3C X 0.75	19 x 0.22	5.8 / 7.4	26.7	12	110
N6145020959	4C X 0.75	19 x 0.22	6.2 / 7.7	26.7	12	130
N6145020960	7C X 0.75	19 x 0.22	7.1 / 8.8	26.7	10	210
N6145020961	10C X 0.75	19 x 0.22	8.6 / 10.3	26.7	8.5	290
N6145020962	14C X 0.75	19 x 0.22	9.2 / 11.4	26.7	8.5	380

Cable with larger braid wire diameter:

Part No.	Number of Cores x Cross- section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020963	2C X 0.75	19 x 0.22	6.4 / 7.9	26.7	13.6	120
N6145020964	3C X 0.75	19 x 0.22	6.8 / 8.2	26.7	12.0	150
N6145020965	4C X 0.75	19 x 0.22	7.2 / 8.7	26.7	12.0	170
N6145020966	7C X 0.75	19 x 0.22	8.0 / 9.3	26.7	10.0	250
N6145020967	10C X 0.75	19 x 0.22	9.8 / 11.4	26.7	8.5	340
N6145020968	14C X 0.75	19 x 0.22	10.7 / 12.3	26.7	8.5	450
N6145020969	2C X 1.0	19 x 0.25	6.9 / 8.3	22.2	15	160
N6145020970	3C X 1.5	19 x 0.30	7.7 / 9.1	14.7	17.5	200

TABLE 21: MULTIPAIRS CABLES - COLLECTIVELY SCREENED - 0.35 mm², 600V

Specification: EED – 50 -12 (Rev.3)

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020971	1P X 0.35	19 x 0.15	4.8 / 6.3	60	8.0	41
N6145020972	3P X 0.35	19 x 0.15	6.6 / 8.3	60	5.9	87
N6145020973	5P X 0.35	19 x 0.15	7.8 / 9.6	60	4.9	120
N6145020974	7P X 0.35	19 x 0.15	8.2 / 10.2	60	4.9	139
N6145020975	12P X 0.35	19 x 0.15	10.6 / 12.6	60	4.4	215
N6145020976	19P X 0.35	19 x 0.15	12.3 / 14.6	60	4.0	315
N6145020977	27P X 0.35	19 x 0.15	14.6 / 17.0	60	3.0	417
N6145020978	37P X 0.35	19 x 0.15	16.3 / 18.8	60	3.0	539

TABLE 22: MULTIPAIRS CABLES - COLLECTIVELY SCREENED - 0.75 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020979	1P X 0.75	19 x 0.22	5.5 / 7.0	26.7	13.6	84
N6145020980	3P X 0.75	19 x 0.22	8.1 / 9.6	26.7	10	165
N6145020981	5P X 0.75	19 x 0.22	9.5 / 11.4	26.7	8.5	230
N6145020982	7P X 0.75	19 x 0.22	10.7 / 12.7	26.7	8.5	270
N6145020983	12P X 0.75	19 x 0.22	13.9 / 16.0	26.7	7.5	460
N6145020984	19P X 0.75	19 x 0.22	16.3 / 18.3	26.7	6.8	630
N6145020985	27P X 0.75	19 x 0.22	19.3 / 21.9	26.7	6.8	900
New Addition	3P X 0.5	19 x 0.18	7.8 / 9.0	40.1	8.1	120
New Addition	19P X 0.5	19 x 0.18	14.4 / 16.6	40.1	5.6	414

TABLE 23: MULTIPAIRS CABLES - INDIVIDUALLY SCREENED - 0.35 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

8. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
9. Insulation – Electron Beam crosslink dual layer Polyolefin compound
10. Cores Laid up
11. Separator Tape – Polyester tape
12. Braiding – Annealed Tinned Copper Braid (95% Coverage)
13. Separator Tape – Polyester tape
14. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020986	1P X 0.35	19 x 0.15	4.8 / 6.3	60	8.0	50
N6145020987	3P X 0.35	19 x 0.15	8.8 / 10.4	60	5.9	130
N6145020988	5P X 0.35	19 x 0.15	10.7 / 12.5	60	4.9	200
N6145020989	7P X 0.35	19 x 0.15	11.6 / 13.5	60	4.9	260
New Addition	2P X 0.35	19 x 0.15	8.4 / 9.4	60	6.9	90
New Addition	19P X 0.35	19 x 0.15	17.5 / 20.4	60	4.0	550

TABLE 24: MULTIPAIRS CABLES - INDIVIDUALLY SCREENED - 0.75 mm², 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020990	1P X 0.75	19 x 0.22	5.5 / 7.0	26.7	13.6	80
N6145020991	3P X 0.75	19 x 0.22	10.5 / 12.3	26.7	10	210
N6145020992	5P X 0.75	19 x 0.22	12.5 / 14.8	26.7	8.5	320
N6145020993	7P X 0.75	19 x 0.22	13.5 / 16.2	26.7	8.5	420
New Addition	16P X 0.5	19 x 0.22	19.6 / 21.6	26.7	5.6	680

TABLE 25: SINGLE CORE CABLES (UNSCREENED) - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	2.0 kV/ 3.0 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145020994	1C X 0.5	16 x 0.21	4.0	40.1	14.0	23
N6145020995	1C X 0.75	24 x 0.21	4.2	26.7	17.0	27
N6145020996	1C X 1.0	32 x 0.21	4.4	20.0	20.0	31
N6145020997	1C X 1.5	30 x 0.26	4.6	13.7	29.0	37
N6145020998	1C X 2.5	50 x 0.26	5.1	8.21	39.0	49
N6145020999	1C X 4.0	56 x 0.31	6.1	5.09	48.0	73
N6145021000	1C X 6.0	84 x 0.31	6.7	3.39	70.0	97
N6145021001	1C X 10	80 x 0.41	8.2	1.95	89.0	153
N6145021002	1C X 16	126 x 0.41	9.8	1.24	125	229
N6145021003	1C X 25	189 x 0.41	11.9	0.795	156	336
N6145021004	1C X 35	259 x 0.41	12.9	0.565	184	432
N6145021005	1C X 50	378 x 0.41	15.3	0.393	224	517
N6145021006	1C X 70	348 x 0.51	17.5	0.277	279	852
N6145021007	1C X 95	456 x 0.51	19.4	0.210	352	1095
N6145021008	1C X 120	570 x 0.51	21.3	0.164	424	1332
N6145021009	1C X 150	741 x 0.51	23.9	0.132	470	1716
N6145021010	1C X 185	893 x 0.51	26.2	0.108	536	2066
N6145021011	1C X 240	1184 x 0.51	29.4	0.0817	626	2699
N6145021012	1C X 300	1480 x 0.51	32.6	0.0654	738	3349
N6145021013	1C X 400	1920 x 0.51	37.0	0.0495	883	4319

TABLE 26: TWO CORE CABLES (UNSCREENED) - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape - Polyester Tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	2.0 kV/ 3.0 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021016	2C X 0.5	16 x 0.21	6.7	40.1	11.2	62
N6145021017	2C X 0.75	24 x 0.21	7.1	26.7	13.6	72
N6145021018	2C X 1.0	32 x 0.21	7.5	20.0	16.0	80
N6145021019	2C X 1.5	30 x 0.26	8.0	13.7	23.2	97
N6145021020	2C X 2.5	50 x 0.26	9.2	8.21	31.2	139
N6145021021	2C X 4.0	56 x 0.31	10.7	5.09	38.0	174
N6145021022	2C X 6.0	84 x 0.31	12.1	3.39	56.0	236
N6145021023	2C X 10	80 x 0.41	15.3	1.95	71.0	378
N6145021024	2C X 16	126 x 0.41	18.3	1.24	100	560
N6145021025	2C X 25	189 x 0.41	22.6	0.795	125	850
N6145021026	2C X 35	259 x 0.41	24.8	0.565	147	1081
N6145021027	2C X 50	378 x 0.41	29.6	0.393	180	1672
N6145021028	2C X 70	348 x 0.51	34.0	0.277	223	2271
N6145021029	2C X 95	456 x 0.51	37.8	0.210	282	2925
N6145021030	2C X 120	570 x 0.51	47.9	0.164	340	3519
N6145021031	2C X 150	741 x 0.51	47.1	0.132	376	4400

TABLE 27: THREE CORE CABLES (UNSCREENED) - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape - Polyester Tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	2.0 kV/ 3.0 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021032	3C X 0.5	16 x 0.21	7.1	40.1	9.8	70
N6145021033	3C X 0.75	24 x 0.21	7.5	26.7	12.0	82
N6145021034	3C X 1.0	32 x 0.21	7.9	20.0	14.0	95
N6145021035	3C X 1.5	30 x 0.26	8.7	13.7	20.3	121
N6145021036	3C X 2.5	50 x 0.26	9.6	8.21	27.3	163
N6145021037	3C X 4.0	56 x 0.31	11.5	5.09	34.0	241
N6145021038	3C X 6.0	84 x 0.31	12.8	3.39	49.0	320
N6145021039	3C X 10	80 x 0.41	16.4	1.95	62.0	525
N6145021040	3C X 16	126 x 0.41	19.8	1.24	88.0	784
N6145021041	3C X 25	189 x 0.41	24.1	0.795	109	1150
N6145021042	3C X 35	259 x 0.41	26.7	0.565	129	1510
N6145021043	3C X 50	378 x 0.41	31.8	0.393	157	2150
N6145021044	3C X 70	348 x 0.51	36.6	0.277	195	2950
N6145021045	3C X 95	456 x 0.51	40.5	0.210	246	3765
N6145021046	3C X 120	570 x 0.51	45.0	0.164	297	4675
N6145021047	3C X 150	741 x 0.51	50.7	0.132	329	5915
N6145021048	3C X 185	893 x 0.51	55.9	0.108	375	7193
N6145021049	3C X 240	1184 x 0.51	62.9	0.0817	438	9347

TABLE 28: MULTICORE CABLES (UNSCREENED) - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape - Polyester Tape
5. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U ₀ /U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	2.0 kV/ 3.0 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021050	4C X 0.5	16 x 0.21	7.7	40.1	9.8	78
N6145021051	4C X 0.75	24 x 0.21	8.2	26.7	12.0	93
N6145021052	4C X 1.0	32 x 0.21	8.7	20.0	14.0	109
N6145021053	4C X 1.5	30 x 0.26	9.5	13.7	20.3	139
N6145021054	4C X 2.5	50 x 0.26	10.6	8.21	27.3	192
N6145021055	4C X 4.0	56 x 0.31	12.7	5.09	34	285
N6145021056	5C X 0.5	16 x 0.21	8.4	40.1	8.4	94
N6145021057	5C X 1.0	32 x 0.21	9.7	20.0	12	139
N6145021058	5C X 2.5	50 x 0.26	11.8	8.21	23.4	242
N6145021059	5C X 4.0	56 x 0.31	14.1	5.09	29	360
N6145021060	6C X 6.0	84 x 0.31	17.4	3.39	42	586
N6145021061	7C X 0.5	16 x 0.21	9.1	40.1	8.4	117
N6145021062	7C X 1.0	32 x 0.21	10.6	20.0	12	174
N6145021063	7C X 2.5	50 x 0.26	12.9	8.21	23.4	306
N6145021064	7C X 4.0	56 x 0.31	15.4	5.09	29	459
N6145021065	7C X 6.0	84 x 0.31	17.4	3.39	42	634
N6145021066	7C X 10	84 x 0.31	22.0	1.95	53	1028
N6145021067	7C X 16	126 x 0.41	27.0	1.24	75	1555

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021068	7C X 25	189 x 0.41	32.9	0.795	94	2308
N6145021069	7C X 35	266 x 0.41	36.4	0.565	110	3074
N6145021070	7C X 50	385 x 0.41	43.4	0.393	134	4383
N6145021071	7C X 70	354 x 0.51	50.0	0.277	167	6077
N6145021072	8C X 0.5	16 x 0.21	11.0	40.1	8.4	150
N6145021073	8C X 1.5	30 x 0.26	13.8	13.7	17.4	299
N6145021074	8C X 2.5	50 x 0.26	15.4	8.21	13.4	412
N6145021075	8C X 4.0	56 x 0.31	18.4	5.09	29	613
N6145021076	10C X 0.5	16 x 0.21	12.0	40.1	7	185
N6145021077	10C X 1.0	32 x 0.21	13.6	20.0	10	260
N6145021078	10C X 2.5	50 x 0.26	16.8	8.21	19.5	454
N6145021079	10C X 4.0	56 x 0.31	20.1	5.09	24	675
N6145021080	12C X 0.5	16 x 0.21	12.4	40.1	7.0	199
N6145021081	14C X 1.0	32 x 0.21	15.0	20.0	10.0	336
N6145021082	14C X 2.5	50 x 0.26	18.3	8.21	19.5	596
N6145021083	14C X 4.0	56 x 0.31	21.9	5.09	24.0	895
N6145021084	14C X 6.0	84 x 0.31	24.7	3.39	30.5	1238
N6145021085	14C X 10	80 x 0.41	31.9	1.95	44.5	2049
N6145021086	14C X 16	126 x 0.41	38.5	1.24	63.0	3087
N6145021087	14C X 25	189 x 0.41	47.6	0.795	78.0	4595
N6145021088	14C X 35	266 x 0.41	52.9	0.565	92.0	6152
N6145021089	18C X 1.0	32 x 0.21	16.9	20.0	9.0	434
N6145021090	18C X 2.5	50 x 0.26	20.6	8.21	17.5	780
N6145021091	18C X 4.0	56 x 0.31	24.6	5.09	22.0	1168
N6145021092	18C X 6.0	84 x 0.31	27.8	3.39	28.0	1598
N6145021093	18C X 10	80 x 0.31	35.8	1.95	40.0	2644
N6145021094	18C X 16	126 x 0.41	43.3	1.24	56.0	3984
N6145021095	19C X 0.5	16 x 0.21	14.6	40.1	6.3	297
N6145021096	19C X 1.0	32 x 0.21	16.9	20.0	9.0	442
N6145021097	22C X 1.5	30 x 0.26	20.4	13.7	13.1	685
N6145021098	22C X 2.5	50 x 0.26	23.2	8.21	17.5	979
N6145021099	24C X 1.0	32 x 0.21	19.9	20.0	9.0	561
N6145021100	24C X 1.5	30 x 0.26	21.4	13.7	13.1	705
N6145021101	24C X 2.5	50 x 0.26	24.3	8.21	17.5	1013
N6145021102	24C X 4.0	56 x 0.31	29.3	5.09	22.	1535
N6145021103	27C X 0.5	16 x 0.21	17.6	40.1	5.6	413
N6145021104	30C X 1.0	32 x 0.21	21.0	20.0	8.0	677
N6145021105	30C X 1.5	30 x 0.26	22.6	13.7	11.6	855
N6145021106	30C X 2.5	50 x 0.26	25.8	8.21	15.6	1234

Part No.	Number of Cores x Cross- section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021107	30C X 4.0	56 x 0.31	31.3	5.09	19.0	1893
N6145021108	30C X 6.0	84 x 0.31	35.4	3.39	28.0	2615
N6145021212	30C X 10	80 x 0.41	45.4	1.95	36.0	4309
N6145021213	36C X 1.0	32 x 0.21	22.7	20.0	8.0	802
N6145021214	36C X 2.5	50 x 0.26	28.1	8.21	15.6	1485
N6145021109	36C X 4.0	56 x 0.31	33.8	5.09	19.0	2255
N6145021110	37C X 0.5	16 x 0.21	19.9	40.1	5.6	549
N6145021111	37C X 1.0	32 x 0.21	22.7	20.0	7.9	811
N6145021112	44C X 1.0	32 x 0.21	25.7	20.0	8.0	970
N6145021113	44C X 2.5	50 x 0.26	32.0	8.21	18.6	1814
New Addition	4C X 6.0	84 x 0.31	14.6	3.39	43	400
New Addition	4C X 50	385 x 0.41	36.2	0.393	157	2860
New Addition	4C X 70	357 x 0.51	40.8	0.277	195	3830
New Addition	4C X 95	468 x 0.51	45.3	0.210	246	4900
New Addition	4C X 120	590 x 0.51	50.2	0.164	297	6065
New Addition	4C X 10	80 x 0.41	18.5	1.95	62	680
New Addition	4C X 16	126 x 0.41	22.0	1.24	78	1000
New Addition	4C X 25	189 x 0.41	27.0	0.795	109	1480
New Addition	4C X 35	266 x 0.41	29.5	0.565	129	1900
New Addition	5C X 1.5	30 x 0.26	11.1	13.7	15	185
New Addition	7C X 1.5	30 x 0.26	12.5	13.7	15	248
New Addition	12C X 1.5	30 x 0.26	16.1	13.7	12.5	390
New Addition	19C X 0.75	24 x 0.21	16.5	26.7	9.5	385
New Addition	19C X 1.5	30 x 0.26	19.5	13.7	11.25	600
New Addition	27C X 1.5	30 x 0.26	23.0	13.7	11.25	800
New Addition	37C X 1.5	30 x 0.26	26.0	13.7	11.26	1080

TABLE 29: SINGLE AND MULTICORE CABLES – COLLECTIVELY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape - Polyester Tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	2.0 kV/ 3.5 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021114	1C X 10	80 x 0.41	7.7	1.95	89	225
N6145021115	1C X 50	378 x 0.41	14.1	0.393	224	710
New Addition	1C X 4.0	56 x 0.31	5.1	5.09	48	150
New Addition	1C X 240	1184 x 0.51	26.9	0.0817	626	3050
N6145021116	2C X 0.5	16 x 0.21	5.8	40.1	11.0	103
N6145021117	2C X 1.0	32 x 0.21	6.6	20.0	16.0	119
N6145021118	2C X 1.5	30 x 0.26	7.1	13.7	23.2	142
N6145021119	2C X 2.5	50 x 0.26	8.0	8.21	31.2	187
N6145021120	2C X 4.0	56 x 0.31	9.4	5.09	38.0	256
N6145021121	2C X 6.0	84 x 0.31	10.6	3.39	56.0	319
N6145021122	2C X 10	80 x 0.41	13.4	1.95	71.0	501
N6145021123	2C X 16	126 x 0.41	16.9	1.24	100	755
N6145021124	2C X 25	189 x 0.41	20.5	0.795	125	1051
N6145021125	2C X 35	266 x 0.41	24.6	0.565	147	1321
N6145021126	2C X 50	385 x 0.41	29.2	0.393	179	1827
N6145021127	2C X 70	354 x 0.51	33.2	0.277	223	2443

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021128	2C X 95	468 x 0.51	36.6	0.210	282	3077
N6145021129	2C X 120	590 x 0.51	40.8	0.164	340	3753
N6145021130	2C X 150	749 x 0.51	45.6	0.132	376	4695
N6145021131	3C X 0.5	16 x 0.21	6.2	40.1	10	122
N6145021132	3C X 1.0	32 x 0.21	7.0	20.0	14	154
N6145021133	3C X 1.5	30 x 0.26	7.6	13.7	20.3	176
N6145021134	3C X 2.5	50 x 0.26	8.6	8.21	27.3	225
N6145021135	3C X 4.0	56 x 0.31	10.1	5.09	34.0	314
N6145021136	3C X 6.0	84 x 0.31	11.4	3.39	49.0	402
N6145021137	3C X 10	80 x 0.41	14.4	1.95	62.0	627
N6145021138	3C X 16	126 x 0.41	18.2	1.24	88.0	972
N6145021139	3C X 25	189 x 0.41	22.1	0.795	109	1365
N6145021140	3C X 35	266 x 0.41	26.2	0.565	129	1922
N6145021141	3C X 50	385 x 0.41	31.3	0.393	157	2500
N6145021142	3C X 70	354 x 0.51	35.5	0.277	195	3485
N6145021143	3C X 95	468 x 0.51	39.2	0.210	246	4360
N6145021144	3C X 120	590 x 0.51	43.7	0.164	297	5340
N6145021145	3C X 150	749 x 0.51	48.9	0.132	329	6660
N6145021146	3C X 185	921 x 0.51	54.3	0.108	375	8050
N6145021147	3C X 240	1205 x 0.51	60.7	0.0817	438	10280
N6145021148	4C X 1.0	32 x 0.21	6.7	20.0	14.0	166
N6145021149	4C X 1.5	30 x 0.26	7.1	13.7	20.3	195
N6145021150	4C X 2.5	50 x 0.26	8.4	8.21	27.3	260
N6145021151	4C X 6.0	84 x 0.31	11.5	3.39	49.0	475
N6145021152	5C X 1.0	32 x 0.21	7.3	20.0	12.0	205
N6145021153	5C X 0.75	24 x 0.21	6.8	26.1	10.2	190
N6145021154	5C X 1.5	30 x 0.26	8.0	13.7	17.4	250
N6145021155	7C X 0.5	16 x 0.21	7.1	40.1	8.4	193
N6145021156	7C X 0.75	24 x 0.21	7.5	26.7	10.0	220
N6145021157	8C X 0.75	24 x 0.21	10.2	26.7	10.0	280
N6145021158	8C X 1.0	32 x 0.21	11.0	20.0	12.0	290
N6145021159	12C X 0.5	16 x 0.21	9.8	40.1	7.0	290
N6145021160	12C X 0.75	24 x 0.21	10.4	26.7	9.0	375
N6145021161	12C X 1.0	32 x 0.21	11.4	20.0	10.0	390
N6145021162	14C X 1.0	32 x 0.21	12.1	20.0	10.0	445
N6145021215	14C X 0.75	24 x 0.21	11.1	26.7	9.0	390
N6145021163	19C X 0.5	16 x 0.21	11.8	40.1	6.3	400
N6145021164	27C X 0.5	16 x 0.21	14.5	40.1	5.6	550
N6145021165	30C X 0.75	24 x 0.21	16.1	26.7	7.0	780
N6145021166	24C X 0.75	24 x 0.21	15.0	26.7	8.0	700
N6145021167	37C X 0.5	16 x 0.21	16.1	40.1	5.6	783

Part No.	Number of Cores x Cross- section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021168	1C X 10	80 x 0.41	11.2	1.95	89.0	250
N6145021169	1C X 50	378 x 0.41	18.0	0.393	224	760
N6145021170	2C X 0.5	16 x 0.21	8.8	40.1	11.2	115
N6145021171	2C X 1.0	32 x 0.21	9.6	20	16.0	140
N6145021172	2C X 1.5	30 x 0.26	10.3	13.7	23.2	165
N6145021173	2C X 2.5	50 x 0.26	11.2	8.21	31.2	205
N6145021174	2C X 4.0	56 x 0.31	12.8	5.09	38.0	270
N6145021175	2C X 6.0	84 x 0.31	14.4	3.39	56.0	350
N6145021176	2C X 10	80 x 0.41	17.2	1.95	71.0	518
N6145021177	2C X 50	385 x 0.41	33.5	0.393	179	2120
N6145021178	2C X 70	354 x 0.51	38.3	0.277	223	2700
N6145021179	2C X 95	468 x 0.51	42.7	0.21	282	3470
N6145021180	2C X 120	590 x 0.51	47.0	0.164	340	4150
N6145021181	2C X 150	749 x 0.51	53.1	0.132	376	5200
N6145021182	3C X 0.5	16 x 0.21	9.5	40.1	10.0	135
N6145021183	3C X 1.0	32 x 0.21	10.5	20.0	14.0	170
N6145021184	3C X 1.5	30 x 0.26	11.0	13.7	20.3	195
N6145021185	3C X 2.5	50 x 0.26	12.0	8.21	27.3	245
N6145021186	3C X 4.0	56 x 0.31	13.5	5.09	34.0	320
N6145021187	3C X 6.0	84 x 0.31	15.0	3.39	49.0	410
N6145021188	3C X 10	80 x 0.41	18.2	1.95	62.0	640
N6145021189	3C X 50	385 x 0.41	36.8	0.393	157	2804
N6145021190	3C X 70	354 x 0.51	41.2	0.277	195	3550
N6145021191	3C X 95	468 x 0.51	45.4	0.21	246	4447
N6145021192	3C X 120	590 x 0.51	50.1	0.164	297	5447
N6145021193	3C X 150	749 x 0.51	56.2	0.132	329	6750
N6145021194	3C X 185	921 x 0.51	61.5	0.108	375	8180
N6145021195	3C X 240	1205 x 0.51	69.1	0.0817	438	10486
N6145021196	4C X 1.0	32 x 0.21	10.6	20.0	14.0	185
N6145021197	4C X 1.5	30 x 0.26	11.2	13.7	20.3	228
N6145021198	4C X 2.5	50 x 0.26	12.5	8.21	27.3	284
N6145021199	4C X 6.0	84 x 0.31	15.9	3.39	49.0	514
N6145021200	5C X 1.0	32 x 0.21	11.5	20.0	12.0	209
N6145021201	5C X 0.75	24 x 0.21	10.9	26.7	10.2	195
N6145021202	5C X 1.5	30 x 0.26	12.1	13.7	17.4	255
N6145021203	7C X 0.5	16 x 0.21	11.2	40.1	8.4	197
N6145021204	7C X 0.75	24 x 0.21	11.8	26.7	10.0	225
N6145021205	8C X 0.75	24 x 0.21	14.6	26.7	10.0	320
N6145021206	8C X 1.0	32 x 0.21	15.4	20.0	12.0	365
N6145021207	12C X 0.5	16 x 0.21	14.8	40.1	7.0	310
N6145021208	12C X 0.75	24 x 0.21	15.4	26.7	8.5	385
N6145021209	12C X 1.0	32 x 0.21	16.4	20.0	10.0	421
N6145021210	14C X 1.0	32 x 0.21	17.4	20.0	10.0	475
N6145021211	14C X 0.75	24 x 0.21	16.6	26.7	8.5	425
N6145021216	19C X 0.5	16 x 0.21	17.0	40.1	6.3	425
N6145021217	27C X 0.5	16 x 0.21	20.4	40.1	56	570

Part No.	Number of Cores x Cross- section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
New Addition	3C X 6.6	94 x 0.31	16.0	3.03	43	440
New Addition	7C X 1.0	32 x 0.21	12.6	20.0	11	310
New Addition	37C X 1.0	32 x 0.21	25.7	20.0	7.6	1000
New Addition	22C X 1.5	30 x 0.26	24.0	13.7	11.0	830
New Addition	16C X 1.0	32 x 0.21	18.0	20.0	9.5	530
New Addition	27C X 1.5	30 x 0.26	24.5	13.7	11.25	1010

TABLE 30: SINGLE AND MULTIPAIRS CABLES – COLLECTIVELY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Pairs Laid up
4. Separator Tape - Polyester Tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	2000V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021218	1P X 0.5	16 x 0.21	7.9	40.1	11.0	100
N6145021219	2P X 0.5	16 x 0.21	11.7	40.1	10.0	190
N6145021220	5P X 0.5	16 x 0.21	15.2	40.1	7.0	259
N6145021221	9P X 0.5	16 x 0.21	18.6	40.1	6.3	419
N6145021222	18P X 0.5	16 x 0.21	25.0	40.1	5.6	797
N6145021223	1P X 0.6	19 x 0.21	8.2	34.1	12.0	103
N6145021224	2P X 0.6	19 x 0.21	12.1	34.1	11.0	152
N6145021225	3P X 0.6	19 x 0.21	12.7	34.1	9.0	196
N6145021226	4P X 0.6	19 x 0.21	14.6	34.1	9.0	245
N6145021227	7P X 0.6	19 x 0.21	16.8	34.1	7.5	370
N6145021228	11P X 0.6	19 x 0.21	21.0	34.1	6.8	543
N6145021229	16P X 0.6	19 x 0.21	24.4	34.1	6.0	775
N6145021230	19P X 0.6	19 x 0.21	26.4	34.1	6.0	914

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021231	1P X 0.75	24 x 0.21	8.4	26.7	14.0	106
N6145021232	2P X 0.75	24 x 0.21	12.4	26.7	12.0	200
N6145021233	3P X 0.75	24 x 0.21	13.1	26.7	10.0	230
N6145021234	4P X 0.75	24 x 0.21	14.4	26.7	10.0	284
N6145021235	7P X 0.75	24 x 0.21	17.3	26.7	8.5	414
N6145021237	16P X 0.75	24 x 0.21	25.2	26.7	5.8	820
N6145021238	19P X 0.75	24 x 0.21	27.2	26.7	5.8	970
New Addition	24P X 0.75	24 x 0.21	30.5	26.7	5.6	1170
N6145021239	1P X 1.0	32 x 0.21	8.6	20.6	16.0	125
N6145021240	2P X 1.0	32 x 0.21	13.1	20.6	14.0	190
N6145021241	3P X 1.0	32 x 0.21	13.8	20.6	12.0	240
N6145021242	4P X 1.0	32 x 0.21	15.2	20.6	12.0	325
N6145021243	7P X 1.0	32 x 0.21	18.3	20.6	10.0	459
N6145021244	11P X 1.0	32 x 0.21	22.9	20.6	9.0	720
N6145021245	16P X 1.0	32 x 0.21	26.8	20.6	8.0	1014
N6145021248	19P X 1.0	32 x 0.21	29.5	20.6	8.0	1200
New Addition	1P X 1.5	30 x 0.26	9.5	13.7	20	140
New Addition	2P X 1.5	30 x 0.26	13.6	13.7	17.5	245
New Addition	3P X 1.5	30 x 0.26	14.8	13.7	17.0	310

TABLE 31: MULTIPAIRS CABLES – INDIVIDUALLY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink Polyolefin compound
3. Pairs Laid up
4. Separator Tape - Polyester Tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Pairs x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021247	2P X 0.5	16 x 0.21	12.6	40.1	10.0	200
N6145021248	5P X 0.5	16 x 0.21	16.7	40.1	7.0	450
N6145021249	9P X 0.5	16 x 0.21	21.3	40.1	6.3	769
N6145021250	18P X 0.5	16 x 0.21	28.6	40.1	5.6	1375
N6145021251	3P X 0.6	19 x 0.21	15.8	34.1	9.0	340
N6145021252	4P X 0.6	19 x 0.21	17.6	34.1	9.0	425
N6145021253	7P X 0.6	19 x 0.21	21.6	34.1	7.5	660
New Addition	16P X 0.75	24 x 0.21	35.5	26.7	6.8	1770
N6145021254	3P X 1.0	32 x 0.21	17.1	20.6	12.0	429
N6145021255	4P X 1.0	32 x 0.21	18.6	20.6	12.0	511
N6145021256	7P X 1.0	32 x 0.21	23.0	20.6	10.0	746

TABLE 32: SINGLE AND MULTITRIAD CABLES – COLLECTIVELY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink Polyolefin compound
3. Triads Laid up
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Separator Tape – Polyester tape
6. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Triads x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021257	1T X 0.5	16 x 0.21	8.3	40.1	9.8	110
N6145021258	3T X 0.5	16 x 0.21	13.8	40.1	7.0	252
N6145021259	7T X 0.5	16 x 0.21	19.6	40.1	6.3	510
New Addition	1T X 0.75	24 x 0.21	9.0	26.7	12.5	135
New Addition	1T X 1.5	30 x 0.26	9.8	13.7	19	164

TABLE 33: SINGLE AND MULTITRIAD CABLES – INDIVIDUALLY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Braiding – Annealed Tinned Copper Braid (95% Coverage)
6. Separator Tape – Polyester tape
7. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Triads x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021260	3T X 0.5	16 x 0.21	14.7	40.1	7.0	330
N6145021261	7T X 0.5	16 x 0.21	21.1	40.1	6.3	700
New Addition	4T X 0.75	24 x 0.21	18.0	26.7	8.5	500
New Addition	10T X 0.75	24 x 0.21	28.5	26.7	6.8	1200

TABLE 34: SINGLE CORE CABLES WITH SCREEN OVER SHEATH – 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Outer Sheath – Electron Beam crosslink dual layer Polyolefin compound
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021262	1C X 0.5	16 x 0.21	4.9	40.1	14.0	49
N6145021263	1C X 0.75	24 x 0.21	5.1	26.7	17.0	53
N6145021264	1C X 1.0	32 x 0.21	5.3	20.0	20.0	57
N6145021265	1C X 1.5	30 x 0.26	5.5	13.7	29.0	63
N6145021266	1C X 2.5	50 x 0.26	6.0	8.21	39.0	82
N6145021267	1C X 4.0	56 x 0.31	7.2	5.09	48.0	121
N6145021268	1C X 6.0	84 x 0.31	7.8	3.39	70.0	155

TABLE 35: MULTICORE CABLES WITH SCREEN OVER SHEATH – 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester Tape
5. Outer Sheath – Electron Beam crosslink dual layer Polyolefin compound
6. Braiding – Annealed Tinned Copper Braid (95% Coverage)

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021269	2C X 0.5	16 x 0.21	7.9	40.1	11.0	95
N6145021270	2C X 0.75	24 x 0.21	8.3	26.7	14.0	105
N6145021271	2C X 1.0	32 x 0.21	8.7	20.0	16.0	115
N6145021272	2C X 1.5	30 x 0.26	9.4	13.7	23.2	150
N6145021273	2C X 2.5	50 x 0.26	10.3	8.21	31.2	175
N6145021274	3C X 0.5	16 x 0.21	8.3	40.1	10.0	112
N6145021275	3C X 0.75	24 x 0.21	8.7	26.7	12.0	125
N6145021276	3C X 1.0	32 x 0.21	9.1	20.0	14.0	135
N6145021277	3C X 1.5	30 x 0.26	9.9	13.7	20.3	160
N6145021278	4C X 0.5	16 x 0.21	8.9	40.1	10.0	125
N6145021279	4C X 0.75	24 x 0.21	9.4	26.7	12.0	140
N6145021280	5C X 0.5	16 x 0.21	9.6	40.1	8.5	145
N6145021281	7C X 0.5	16 x 0.21	10.4	40.1	8.5	175

TABLE 36: SINGLE CORE CABLES, LOW CAPACITANCE – 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Braiding – Annealed Tinned Copper braid (95% Coverage)
4. Separator Tape – Polyester Tape
5. Outer Sheath – Electron Beam crosslink dual layer Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021282	1C X 1.0	32 x 0.21	7.3	20.0	20.0	70
N6145021283	1C X 1.0	32 x 0.21	8.3	20.0	20.0	115
N6145021284	1C X 1.0	32 x 0.21	13.0	20.0	20.0	240
N6145021285	1C X 2.5	50 x 0.26	6.8	8.21	39.0	74

TABLE 37: MULTI CORE CABLES CORES INDIVIDUALLY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Separator Tape – Polyester tape
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Separator Tape – Polyester tape
6. Cores Laid up
7. Separator Tape – Polyester tape
8. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm^2) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021286	3C X 0.5	16 x 0.21	10.4	40.1	10.0	165
N6145021287	5C X 0.5	16 x 0.21	12.7	40.1	8.5	230
N6145021288	7C X 0.5	16 x 0.21	15.2	40.1	8.5	300
N6145021289	14C X 0.5	16 x 0.21	19.5	40.1	7.0	560
N6145021290	19C X 0.5	16 x 0.21	23.2	40.1	6.3	740

TABLE 38: MULTI CORE CABLES CORES INDIVIDUALLY / COLLECTIVELY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Separator Tape – Polyester tape
4. Braiding – Annealed Tinned Copper Braid (95% Coverage)
5. Separator Tape – Polyester tape
6. Cores Laid up
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021291	2C X 0.75	24 x 0.21	11.2	26.7	14.0	165
N6145021292	3C X 0.75	24 x 0.21	11.7	26.7	12.0	200
N6145021293	12C X 0.75	24 x 0.21	18.9	26.7	8.5	610
N6145021294	33C X 0.75	24 x 0.21	30.4	26.7	7.0	1600
N6145021295	7C X 1.5	30 x 0.26	16.1	13.7	17.4	450
N6145021296	7C X 2.5	50 x 0.26	18.0	8.21	23.4	650
New Addition	4C X 1.5	30 x 0.26	13.7	13.7	17.5	300

TABLE 39: SINGLE CORE CABLES (UNSCREENED, SHORE SUPPLY) - 1800V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	1800 V	Fire-Retardant	IEC 60332-1-2
Test voltage	6.0 kV	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N6145021297	1C X 35	276 x 0.41	14.9	0.565	200	460
N6145021298	1C X 50	396 x 0.41	17.4	0.393	250	640
N6145021299	1C X 70	360 x 0.51	19.7	0.277	310	680
N6145021300	1C X 95	475 x 0.51	22.7	0.210	400	1140
N6145021301	1C X 120	608 x 0.51	24.4	0.164	480	1420
N6145021302	1C X 150	756 x 0.51	27.0	0.132	530	1760
N6145021303	1C X 185	925 x 0.51	29.6	0.108	600	2130
N6145021304	1C X 240	1221 x 0.51	33.5	0.0817	700	2760
N6145021305	1C X 300	1525 x 0.51	37.1	0.0654	820	3420

TABLE 40: OVERALL SCREENED CABLES

Specification: EED – 50 -12 (Rev.3)

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Inner Sheath - Electron Beam crosslink Polyolefin compound
6. Braiding – Annealed Tinned Copper Braid (95% Coverage)
7. Separator Tape – Polyester tape
8. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm^2) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
N614502306	19C X 6.633	7 x 1.11	34.5 / 37.0	2.848	28	2500

TABLE 41: MULTI PAIR CABLES CORES INDIVIDUALLY / COLLECTIVELY SCREENED - 600V
Specification: EED – 50 -12 (Rev.3)
Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
4. Separator Tape – Polyester tape
5. Inner Sheath - Electron Beam crosslink Polyolefin compound
6. Braiding – Annealed Tinned Copper Braid (95% Coverage)
7. Separator Tape – Polyester tape
8. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
New Addition	2C X 0.5	16 x 0.21	13.6	40.1	10	298
New Addition	5C X 0.5	16 x 0.21	17.7	40.1	7	520
New Addition	9C X 0.5	16 x 0.21	22.8	40.1	6.3	985
New Addition	18C X 0.5	16 x 0.21	30.1	40.1	5.6	1700
New Addition	2C X 0.75	24 x 0.21	14.0	26.7	14.0	280
New Addition	4C X 0.75	24 x 0.21	16.5	26.7	10.2	430
New Addition	7C X 0.75	24 x 0.21	19.4	26.7	8.5	631
New Addition	10C X 0.75	24 x 0.21	24.2	26.7	7.7	950
New Addition	12C X 0.75	24 x 0.21	25.0	26.7	7.7	1080
New Addition	14C X 0.75	24 x 0.21	26.5	26.7	6.8	1200
New Addition	19C X 0.75	19 x 0.22	31.5	26.7	6.0	1620
New Addition	3C X 1.0	32 x 0.21	18.1	20.6	11.2	550
New Addition	4C X 1.0	32 x 0.21	20.1	20.6	11.2	749
New Addition	7C X 1.0	32 x 0.21	24.5	20.6	9.5	1115

TABLE 42: MULTI TRIAD CABLES CORES INDIVIDUALLY / COLLECTIVELY SCREENED - 600V

Specification: EED – 50 -12 (Rev.3)

Production Construction:

1. Conductor – Annealed tinned flexible copper wire (Class 5) complying with IS8130:2013 / IEC 60228
2. Insulation – Electron Beam crosslink dual layer Polyolefin compound
3. Cores Laid up
5. Separator Tape – Polyester tape
6. Inner Sheath - Electron Beam crosslink Polyolefin compound
7. Braiding – Annealed Tinned Copper Braid (95% Coverage)
8. Separator Tape – Polyester tape
9. Outer Sheath – Electron Beam crosslink Polyolefin compound

Application:

- Power, Lighting, Control, Communication & Instrumentation circuit in surface ships & Submarine
- Used in fuel and lubrication oils, hydraulic fluids and water surface

Technical Data:

Rated voltage (U_0/U)	600 V	Fire-Retardant	IEC 60332-1-2
Test voltage	1500V	Min. bending radius – Flexing	10 x cable diameter
Max. operating conductor temperature	+120 °C	Min. bending radius - Fixed	4 x cable diameter
Max. short-circuit temperature	+250 °C	Halogen Free	IEC 60754-1
Temperature range	–65 °C up to +120 °C	Packaging	coils, spools and drums

Part No.	Number of Cores x Cross-section (mm ²) per conductor	No. of wires (Typical Value) x Single wire dia, (Max.)	Outer diameter in mm (Nom.)	Max. Conductor Resistance at 20° C (Ω/Km)	Current rating (Air ambient 50°C) at 50-60 Hz (Amp)	Weight of Cable approx. (Kg/Km).
New Addition	3C X 0.5	16 x 0.21	15.7	40.3	7	400
New Addition	7C X 0.5	16 x 0.21	22.6	40.3	6.3	856



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