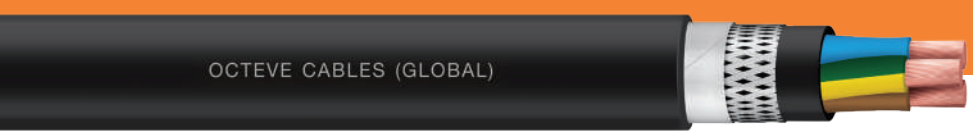
Edition 1

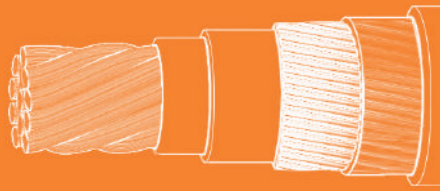
OCTEVE CABLES (GLOBAL)

Terra



Industrial

OCTEVE®



OCTEVE CABLES (GLOBAL)

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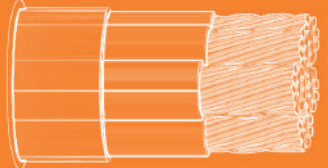
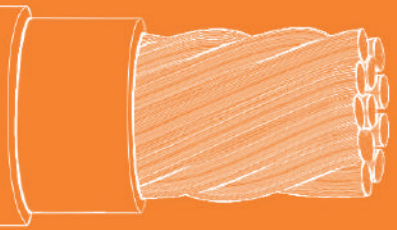


OCTEVE CABLES (GLOBAL)



OCTEVE CABLES (GLOBAL)

OCTEVE™

OCTEVE CABLES is a leading innovator in the field of engineered flexible electrical cables, providing robust solutions tailored to meet the diverse needs of specialized industries worldwide. We operate from our state-of-the-art manufacturing facility in Nakhon Ratchasima, Thailand, and has developed fine copper wire cables with high temperature polymeric insulation and sheath.

WE OFFER

Superior Technical Performance
Solution Oriented Cable Consultants
Full Engineering and Technical Support
Tailor Made Custom Cables
Short Lead Time and Emergency Supply

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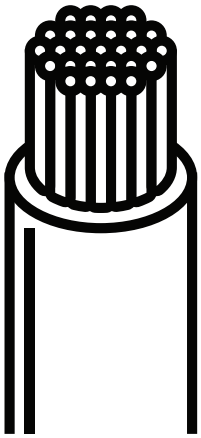
OCTEVE

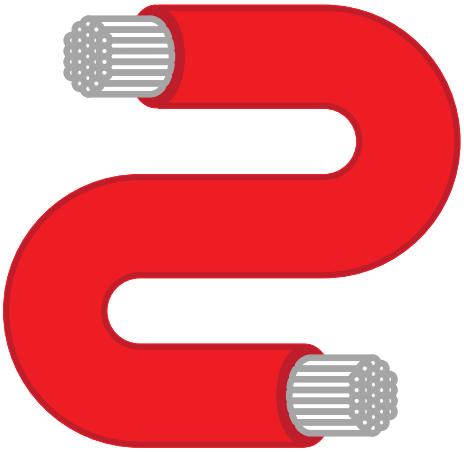
Why Octeve cables?

Finely Stranded Conductor

Octeve Cables are made with premium finely stranded annealed 99.90% copper conductors, plain or tinned, in accordance with IEC 60228. This improves flexibility, durability, current-carrying capacity, and resistance to mechanical stress, making them a preferred choice for any specialized cable applications.

Stranded conductors make it easier to install in applications where bending or movement is required, without the risk of metal fatigue or breaking, ensuring long-term reliability. The increased surface area of finely stranded conductors also allows for better conductivity and improved current-carrying capacity.





Flexible Construction

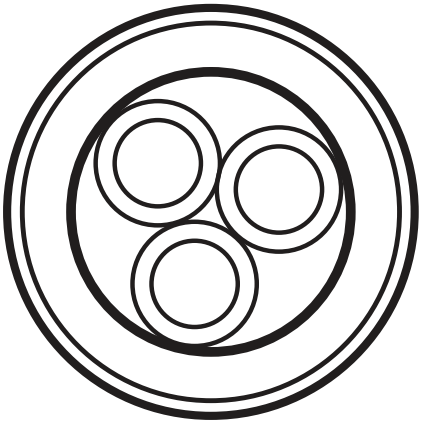
Octeve Cables offer flexible cable construction with a wide range of high performance specialized polymers, LSHF or PVC, that provides significant advantages in terms of durability, safety, and electrical performance.

Flexible cables can be easily routed through tight and complex spaces, simplifying installation in challenging environments, as well as reducing installation time and labor costs. Some selections of our specialized polymers are splash resistant to chemicals and oil, while all our polymers are excellent resistance to aging, to ensure long-term performance.

Engineering Excellence

Octeve Cables concentric cable cores offer superior mechanical and electrical properties, while lightweight engineered designs provide practical benefits in handling, cost, and overall system efficiency.

The concentric arrangements ensure uniform distribution of electrical fields, reducing the risk of hot spots and enhancing the overall efficiency and reliability of the cable. In addition, the round shape simplifies handling and installation, as the cables can be pulled through conduits and ducts more smoothly and with less resistance compared to non-round shapes.



Why Octeve cables?

Tailored Solutions

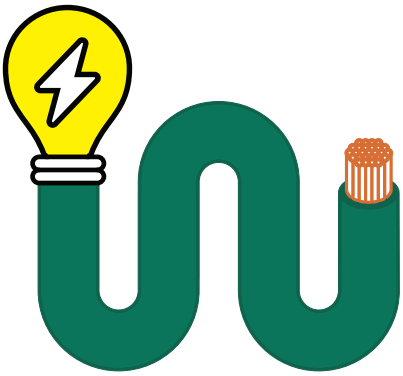
Octeve Cables abilities to customize cables significantly enhances our ability to meet customer needs, improve efficiency, while maintaining a competitive edge.

Our made to order services can meet specific customer requirements and adapt to changing market demands. Our custom production can streamline production processes, reducing lead times and ensuring competitively low Minimum Order Quantity.

Research & Development

Octeve Cables maintains a strong R&D team which drives innovation, ensures compliance and safety, as well as provide a significant competitive advantage in the cable market.

Our team's continuous research leads to the improvement of cable quality and performance, enabling us to stay ahead of industry trends. We highly focus on sustainable innovations to improve recycling methods and waste reduction, in order to enhance our green credentials.



Cable Management

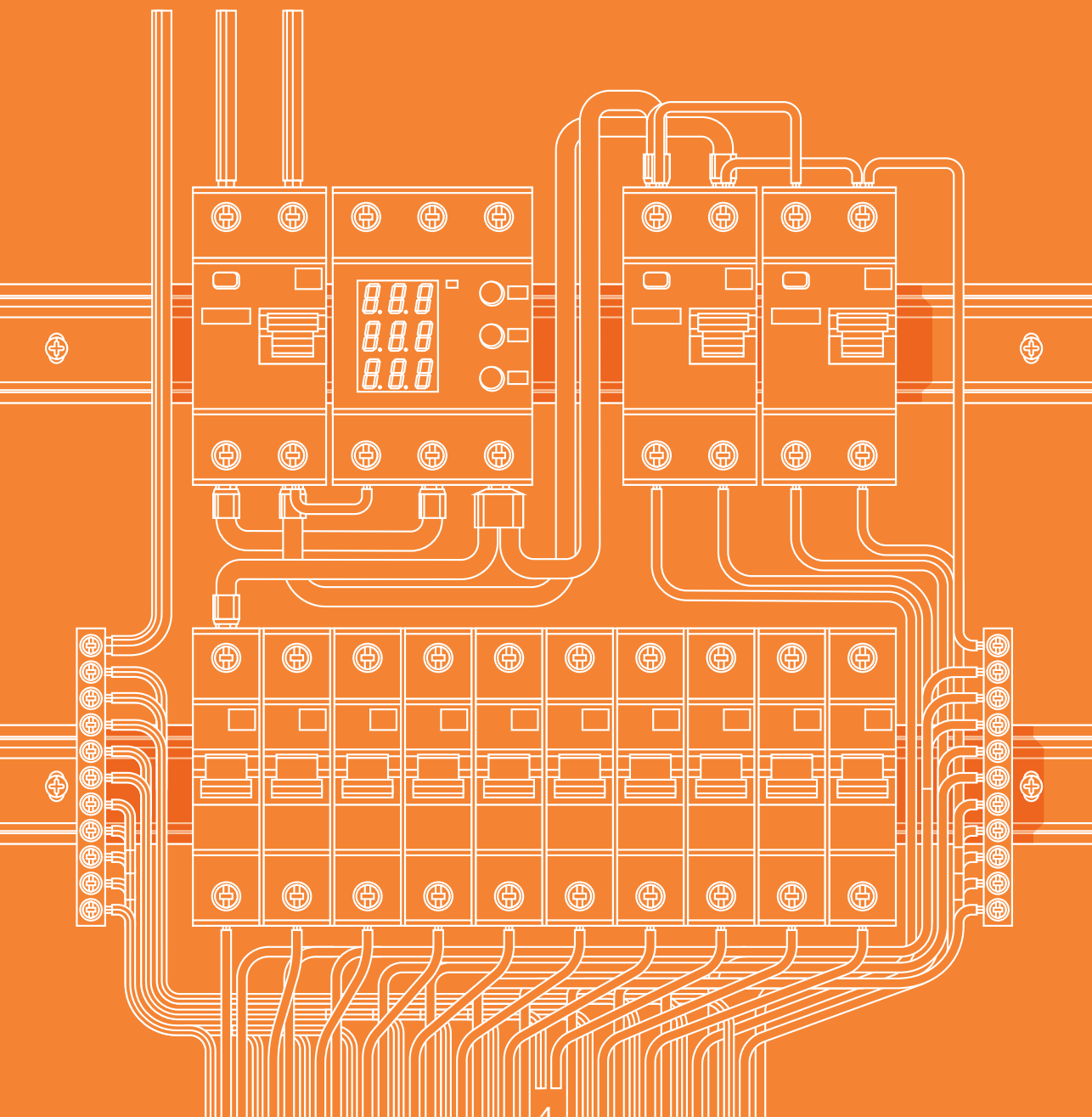
Octeve Cables offers product and meter markings to enhance usability, traceability, and efficiency of our cables. Standard or customized cable printing provides critical information for identification and compliance.

As part of our cable management solutions, our markings facilitate accurate measurement and installation, which helps reduce waste, and support effective project planning.

FLEXIBLE CONSTRUCTION

LOW BENDING RADIUS

SWITCHBOARD /PANEL WIRE



Switchboard/Panel wire

0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

SI

Applications

Flexible single insulated LSHF suitable for switchboard/panel wires

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX HF-90 Halogen Free Crosslinked Polyolefin (XLPO), Flame Retardant, Sunlight & Ozone resistant. Excellent resistance to abrasion.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60992-353,
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1

Approvals

International Type Approvals available upon request.

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts, ac
900/1500 Volts, dc

Number of Conductors (C) & Cross Section Area (mm^2)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Minimum Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
1C 0.75	11	1.2	2.6	16	13
1C 1.0	11	1.3	2.7	20	15
1C 1.5	12	1.5	2.9	23	20
1C 2.5	14	2.1	3.5	40	30
1C 4	16	2.5	3.9	51	44
1C 6	19	3.1	4.5	52	63
1C 10	23	4.1	5.6	72	103
1C 16	27	5.2	6.6	96	155
1C 25	34	6.4	8.3	127	243
1C 35	39	7.8	9.7	157	335
1C 50	46	9.2	11.3	196	483
1C 70	53	10.8	13.1	242	659
1C 95	61	12.8	15.2	293	891
1C 120	69	14.5	17.1	339	1109
1C 150	78	16.3	19.3	389	1415
1C 185	87	18.0	21.4	444	1725
1C 240	97	20.3	23.9	522	2218
1C 300	107	22.5	26.4	601	2723
1C 400	123	26.0	30.3	670	3620
1C 500	137	29.2	33.9	720	4579
1C 630	154	32.8	38.0	780	5759

Switchboard & Panel Wire

0.6/1kV 105°C N-RUBBER Flame Retardant
ROHS III & REACH compliant

NI

• Applications

Flexible Rubber, flame retardant single insulated for wiring of switchboards, control, instrumentation & electronic equipment. Also used as earth bonding conductor for mains & submains.

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation N-RUBBER V-105 Lead-free PVC Thermoplastic, Flame Retardant. Water, Oil, Sunlight & Ozone resistant. Excellent resistance to abrasion.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1,
IEC 60332-1 IEC 60332-3-22 CAT A,
AS/NZS 1125, AS/NZS 5000.1
AS/NZS 3808, AS/NZS 3008.1

• Operating Temp

-25°C to +105°C

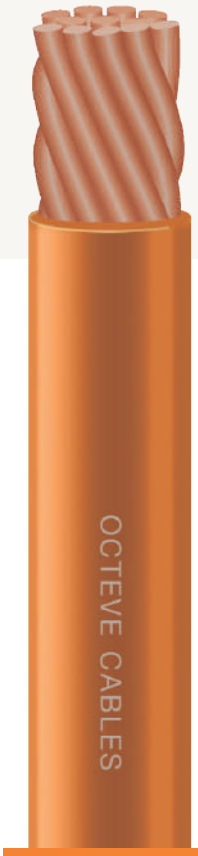
• Voltage Level

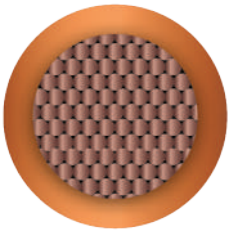
600/1000 Volts AC
900/1500 Volts DC

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating (Amps)
1C 0.5	0.9	2.6	10	11	8
1C 0.75	1.1	2.8	11	14	13
1C 1	1.3	3.0	12	17	16
1C 1.5	1.5	3.3	13	22	20
1C 2.5	2.0	3.8	15	33	27
1C 4	2.4	4.6	18	49	36
1C 6	3.0	5.2	21	68	46
1C 10	3.9	6.2	25	108	64
1C 16	4.9	7.2	29	162	85
1C 25	6.1	8.9	36	247	114
1C 35	7.3	10.2	41	343	141
1C 50	8.8	12.2	49	495	178
1C 70	10.4	13.9	56	667	225
1C 95	12.1	16.0	64	889	271
1C 120	13.6	17.7	71	1108	322
1C 150	15.5	20.1	80	1432	372
1C 185	17.1	22.2	89	1732	427
1C 240	19.5	25	100	2198	514
1C 300	22.0	28.1	112	2774	591
1C 400	25.5	32.2	129	3662	709
1C 500	28.9	36.2	145	4609	821
1C 630	33.0	40.5	162	5872	956

Tri-Rated UL Approved AWM Wire

0.6/1kV 105°C N-RUBBER Flame Retardant
ROHS III & REACH compliant





UK

Applications

Flexible Tri-Rated V-105 flame retardant single insulated for wiring of switchboards, control, instrumentation & electronic equipment for export to Europe & USA.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation N-RUBBER V-105 Lead-free PVC Thermoplastic, Flame Retardant. Water, Oil, Sunlight & Ozone resistant. Excellent resistance to abrasion.

Insulation Color

To customer specification

UL Style Code

1025, 1028, 1283, 1284

Standards

IEC 60228, IEC 60502-1, IEC 60332-1
IEC 60332-3-22 CAT A
AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808
AS/NZS 3808, AS/NZS 3008.1
CSA C22.210, UL 83, UL 1581, UL 758
BS 6231

Operating Temp

-25°C to +105°C

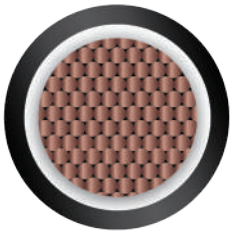
Voltage Level

600 Volts AC, 750 Volts DC

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Minimum Overall Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1C 0.5	0.9	2.5	2.6	10	11
1C 0.75	1.1	2.7	2.8	11	14
1C 1	1.3	2.9	3.0	11	17
1C 1.5	1.5	3.1	3.3	13	22
1C 2.5	2.0	3.6	3.8	14	33
1C 4	2.4	4.4	4.6	18	49
1C 6	3.0	5.0	5.2	20	68
1C 10	3.9	5.9	6.2	24	108
1C 16	4.9	6.9	7.2	28	162
1C 25	6.1	8.5	8.9	34	247
1C 35	7.3	9.7	10.2	39	343
1C 50	8.8	11.6	12.2	47	495
1C 70	10.4	13.2	13.9	53	667
1C 95	12.1	15.3	16.0	61	889
1C 120	13.6	16.8	17.7	67	1108
1C 150	15.5	19.1	20.1	77	1432
1C 185	17.1	21.1	22.2	85	1732
1C 240	19.5	23.9	25.0	95	2198
1C 300	22.0	26.8	28.1	107	2774
1C 400	25.5	30.7	32.2	123	3662
1C 500	28.9	34.5	36.2	138	4609
1C 630	33.0	38.6	40.5	154	5872

Flexible Rubber SDI Switchboard/Panel Wire

0.6/1KV 90°C



FX

Applications

Flexible Rubber Power Cable suitable for indoor and outdoor fixed wiring applications, such as mains, sub-mains, and final sub-circuits.
It can be installed on trays, ladders, within conduits, or buried directly.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Separator Polypropylene tape (multi-core only)

Sheath N-RUBBER, lead-free PVC thermoplastic, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1 IEC 60332-3-22 AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

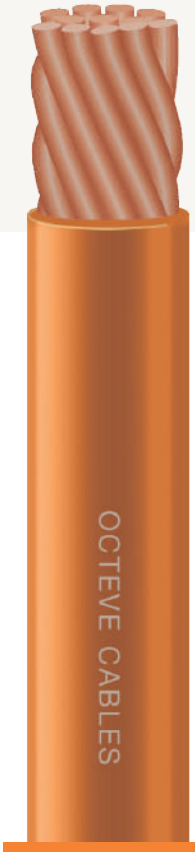
Voltage Level

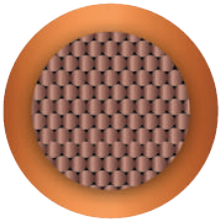
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	29
1C 4	2.4	3.8	7.0	27	76	38
1C 6	3.0	4.4	7.6	29	98	49
1C 10	3.9	5.3	8.5	33	142	69
1C 16	4.9	6.3	9.6	37	201	91
1C 25	6.1	7.9	11.3	43	292	121
1C 35	7.3	9.2	12.5	48	394	151
1C 50	8.8	10.9	14.4	55	548	191
1C 70	10.4	12.7	16.2	62	733	241
1C 95	12.1	14.3	18.2	69	957	290
1C 120	13.6	16.1	20.2	77	1200	346
1C 150	15.5	18.4	22.7	86	1532	400
1C 185	17.1	20.4	25.0	95	1849	459
1C 240	19.5	22.9	27.8	106	2329	553
1C 300	22.0	25.7	30.9	118	2921	637
1C 400	25.5	29.6	35.2	134	3842	764
1C 500	28.9	33.3	39.6	151	4844	884
1C 630	33.0	37.8	44.6	170	6190	1030

Flexible Rubber SDI (Fixed Wiring)

0.6/1KV 110°C





NX

Applications

Flexible Rubber Power Cable is appropriate for indoor and outdoor fixed wiring applications, including mains, sub-mains, and final sub-circuits, whether installed on trays, ladders, within conduits, or directly buried. It also offers the possibility for size reduction.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape (multi-core only)

Sheath N-RUBBER, lead-free PVC thermoplastic, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500 m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 1660.5.1, AS/NZS 1660.5.2, AS/NZS 1660.5.4, AS/NZS 1660.5.6, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

Operating Temp

-40°C to +110°C

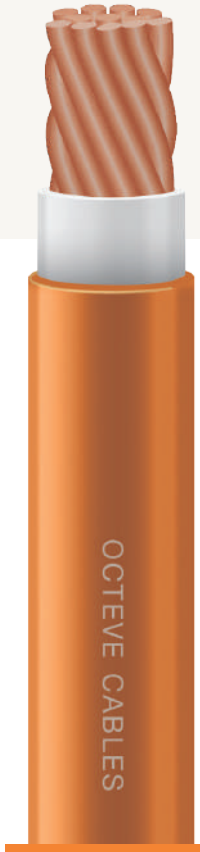
Voltage Level

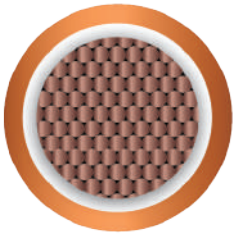
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.8	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.1	20.4	25.0	95	1849	553
1C 240	19.5	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

Flexible LSHF Rubber SDI Switchboard/Panel Wire

0.6/1KV 110°C





EX

Applications

Flexible LSHF Rubber Power Cable for switchboards and panel wires as well as mains, sub-mains and final sub-circuits.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.7	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.0	20.4	25.0	95	1849	553
1C 240	19.6	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

Flexible Rubber SDI (Fixed Wiring)

1.9/3.3kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant

MV

Applications

For Nacelle & Tower power and control circuit

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation Halogen Free Crosslinked Rubber

Sheath Flame Retardant, Water, Oil, Sunlight and Ozone Resistant.

Sheath Options

M Type SHF 2 MUD to IEC 60092-360 & IEC 60502-1
Thermoset Low Smoke Halogen Free

P Type ST 2 to IEC 60092-360 & IEC 60502-1
Thermoplastic N-RUBBER V-105 PVC

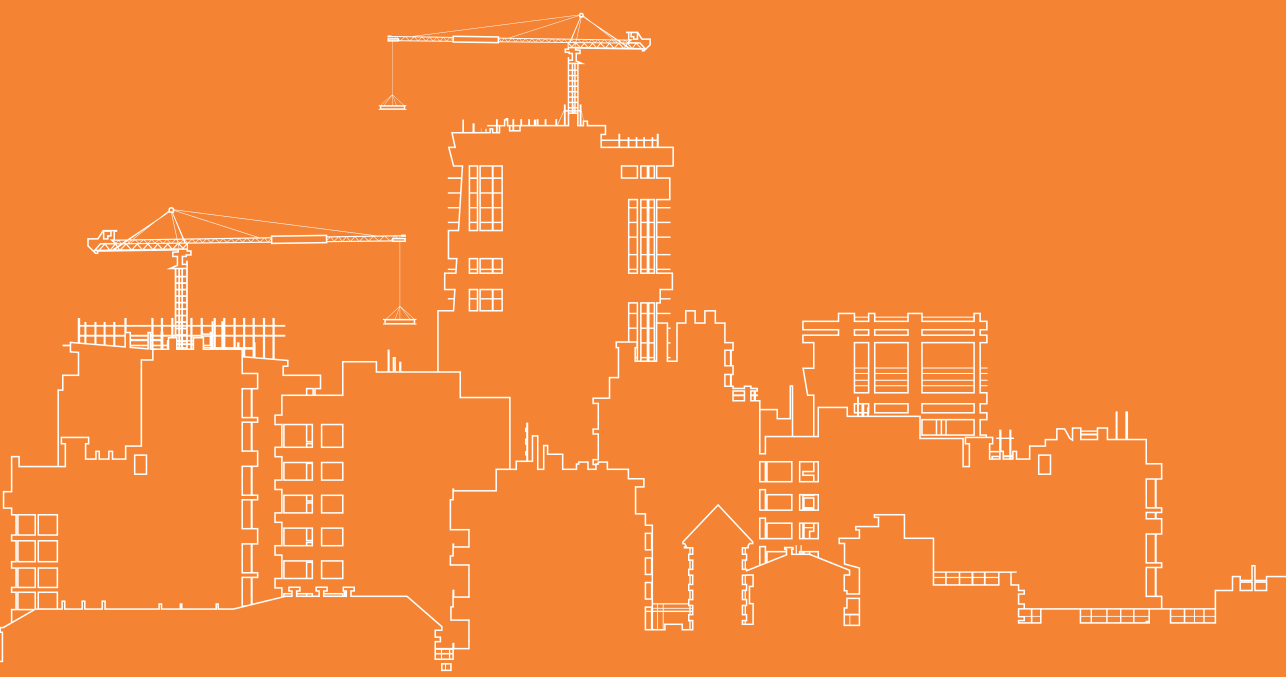
Standards

IEC 60228, IEC 60332-1,
IEC 60754-1&2*, IEC 61034-1&2*
(*For M Type Only)
AS/NZS 1125, AS/NZS 3008.1
VDE 020720, VDE 0250/602

- **Insulation Color** To customer specification
- **Sheath Colour** To customer specification
- **Operating Temp** -40°C to +110°C
- **Voltage Level** 1900/3300 Volts

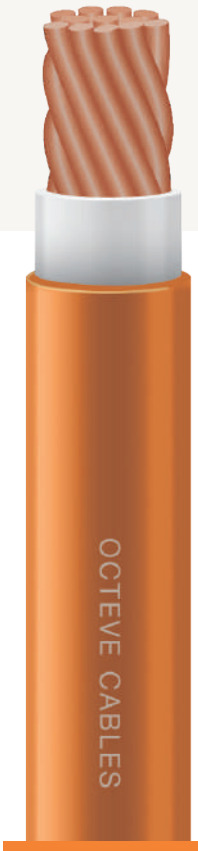
Number of Conductors (c) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Current Rating (Amps)	Approx Weight (kg/km)
1c 6	3.1	5.9	7.6	30	57	93
1c 10	4.1	7.3	9.0	36	80	143
1c 16	5.1	8.3	10.1	40	105	201
1c 25	6.4	10.2	12.3	49	139	311
1c 35	7.8	11.6	13.8	55	172	411
1c 50	9.2	13.1	15.4	61	217	567
1c 70	10.8	14.8	17.0	68	273	749
1c 95	12.8	17.6	19.9	80	329	1019
1c 120	14.5	19.4	21.6	86	390	1243
1c 150	16.3	212	23.8	95	450	1570
1c 185	18.0	23.3	26.1	104	516	1891
1c 240	20.3	26.1	28.8	115	620	2412
1c 300	22.5	28.8	31.5	126	714	3032
1c 400	60.	32.5	35.7	143	855	3501

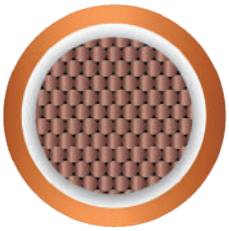
BUILDING AND INSTRUMENTATION (FIXED WIRING)



Flexible Rubber SDI (Fixed Wiring)

0.6/1KV 90°C





BF
SDI

Applications

Flexible Rubber Power Cable suitable for indoor and outdoor fixed wiring applications, such as mains, sub-mains, and final sub-circuits.
It can be installed on trays, ladders, within conduits, or buried directly.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Separator Polypropylene tape (multi-core only)

Sheath N-RUBBER, lead-free PVC thermoplastic, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1 IEC 60332-3-22 AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	29
1C 4	2.4	3.8	7.0	27	76	38
1C 6	3.0	4.4	7.6	29	98	49
1C 10	3.9	5.3	8.5	33	142	69
1C 16	4.9	6.3	9.6	37	201	91
1C 25	6.1	7.9	11.3	43	292	121
1C 35	7.3	9.2	12.5	48	394	151
1C 50	8.8	10.9	14.4	55	548	191
1C 70	10.4	12.7	16.2	62	733	241
1C 95	12.1	14.3	18.2	69	957	290
1C 120	13.6	16.1	20.2	77	1200	346
1C 150	15.5	18.4	22.7	86	1532	400
1C 185	17.1	20.4	25.0	95	1849	459
1C 240	19.5	22.9	27.8	106	2329	553
1C 300	22.0	25.7	30.9	118	2921	637
1C 400	25.5	29.6	35.2	134	3842	764
1C 500	28.9	33.3	39.6	151	4844	884
1C 630	33.0	37.8	44.6	170	6190	1030

BF MULTI

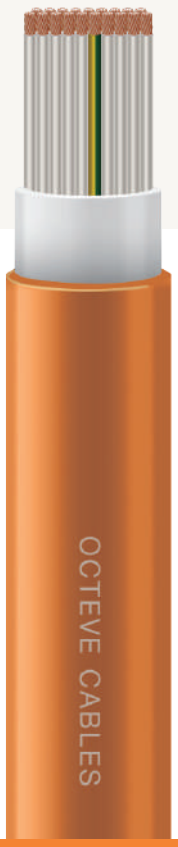
Flexible Rubber Multi-core (Fixed Wiring)

0.6/1KV 90°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Ambient: 40°C in Air (Amps)
2C	1.5	1.5	10.2	39	124	24
2C	2.5	2.0	11.2	43	154	32
2C	4	2.4	12.0	46	186	43
2C	6	3.0	13.2	50	235	55
2C	10	3.9	15.2	58	334	78
2C	16	4.9	17.3	66	462	103
2C	25	6.1	20.6	79	661	136
2C	35	7.3	23.2	88	879	169
2C	50	8.8	26.9	102	1208	213
2C	70	10.4	30.8	117	1618	269
2C	95	12.1	34.5	131	2094	322
2C	120	13.6	38.4	146	2612	381
2C	150	15.5	43.7	166	3364	438
3C	1.5	1.5	10.7	41	148	24
3C	2.5	2.0	11.8	45	189	32
3C	4	2.4	12.7	48	233	43
3C	6	3.0	13.9	53	301	55
3C	10	3.9	16.1	61	439	78
3C	16	4.9	18.4	70	622	103
3C	25	6.1	22.0	84	904	136
3C	35	7.3	24.7	94	1218	169
3C	50	8.8	28.7	109	1693	213
3C	70	10.4	33.1	126	2300	269
3C	95	12.1	37.1	141	2988	322
3C	120	13.6	41.3	157	3735	381
3C	150	15.5	47.0	179	4814	438
3C	185	17.1	51.7	197	5794	499
3C	240	19.5	57.9	220	7306	596
3C	300	22.0	64.5	246	9169	682
4C	1.5	1.5	11.5	44	175	20
4C	2.5	2.0	12.7	48	228	27
4C	4	2.4	13.7	52	285	36
4C	6	3.0	15.1	58	373	46
4C	10	3.9	17.5	67	552	66
4C	16	4.9	20.1	77	791	87
4C	25	6.1	24.1	92	1159	116
4C	35	7.3	27.2	104	1570	144
4C	50	8.8	31.9	121	2213	182
4C	70	10.4	36.8	140	3009	230
4C	95	12.1	41.2	157	3915	275
4C	120	13.6	46.1	175	4924	327
4C	150	15.5	52.4	200	6344	375
4C	185	17.1	57.7	220	7636	428
4C	240	19.5	64.5	246	9628	511
4C	300	22.0	72.1	275	12124	584
5C	1.5	1.5	12.4	47	204	20
5C	2.5	2.0	13.7	52	268	27
5C	4	2.4	14.9	57	338	36
5C	6	3.0	16.4	63	446	46
5C	10	3.9	19.1	73	667	66
5C	16	4.9	22.0	84	962	87
5C	25	6.1	26.5	101	1417	116
5C	35	7.3	30.1	115	1945	144
5C	50	8.8	35.3	134	2743	182
5C	70	10.4	40.7	155	3729	230
5C	95	12.1	45.8	175	4882	275
5C	120	13.6	51.0	194	6107	327
5C	150	15.5	58.0	221	7868	375
5C	185	17.1	64.1	244	9509	428
5C	240	19.5	71.9	274	12027	511
5C	300	22.0	80.1	305	15087	584

Flexible Rubber Control (Fixed Wiring)

0.6/1KV 90°C



BF
CONTROL

Applications

Flexible Control Cable designed for various applications, including indoor and outdoor use, as well as for installation in buried, conduit-enclosed, or underground duct environments, where it is not subjected to mechanical stress.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties. Individually numbered.

Separator Polypropylene tape (multi-core only)

Sheath N-RUBBER, lead-free PVC thermoplastic, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1 IEC 60332-3-22 AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

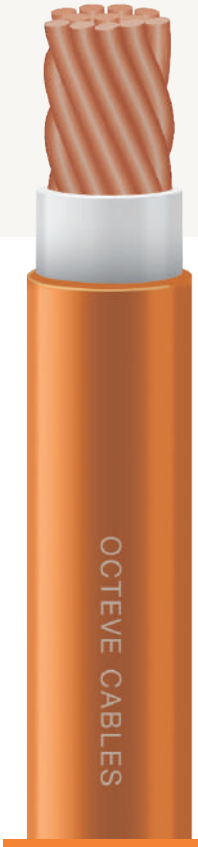
Voltage Level

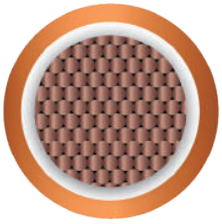
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
7C 1.5	1.5	13.4	51	231
12C 1.5	1.5	17.0	65	359
16C 1.5	1.5	18.7	71	450
19C 1.5	1.5	19.6	75	515
24C 1.5	1.5	22.7	87	640
27C 1.5	1.5	23.2	88	701
33C 1.5	1.5	24.9	95	830
37C 1.5	1.5	25.9	98	914
61C 1.5	1.5	32.3	123	1446
7C 2.5	2.0	14.8	56	314
12C 2.5	2.0	18.9	72	499
16C 2.5	2.0	20.9	80	634
19C 2.5	2.0	22.0	84	731
24C 2.5	2.0	25.6	97	912
27C 2.5	2.0	26.1	99	1003
33C 2.5	2.0	28.1	107	1196
37C 2.5	2.0	29.2	111	1323
61C 2.5	2.0	37.0	141	2146

Flexible Rubber SDI (Fixed Wiring)

0.6/1KV 110°C





BM
SDI

Applications

Flexible Rubber Power Cable is appropriate for indoor and outdoor fixed wiring applications, including mains, sub-mains, and final sub-circuits, whether installed on trays, ladders, within conduits, or directly buried. It also offers the possibility for size reduction.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape (multi-core only)

Sheath N-RUBBER, lead-free PVC thermoplastic, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500 m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 1660.5.1, AS/NZS 1660.5.2, AS/NZS 1660.5.4, AS/NZS 1660.5.6, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.8	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.1	20.4	25.0	95	1849	553
1C 240	19.5	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

BM
MULTI

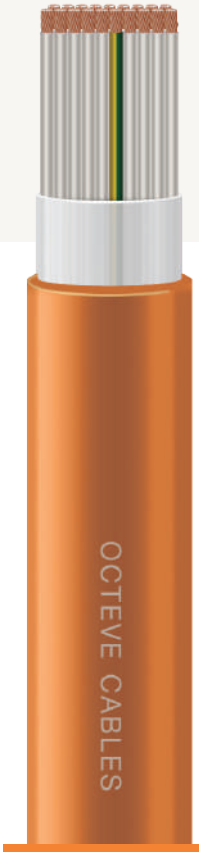
Flexible Rubber Multi-core (Fixed Wiring)

0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Ambient: 40°C in Air (Amps)
2C 1.5	1.5	10.2	39	124	30
2C 2.5	2.0	11.2	43	154	40
2C 4	2.4	12.0	46	186	53
2C 6	3.0	13.2	50	235	67
2C 10	3.9	15.2	58	334	94
2C 16	4.9	17.3	66	462	124
2C 25	6.1	20.6	79	661	163
2C 35	7.3	23.2	88	879	202
2C 50	8.8	26.9	102	1208	254
2C 70	10.4	30.8	117	1618	318
2C 95	12.1	34.5	131	2094	381
2C 120	13.6	38.4	146	2612	450
2C 150	15.5	43.7	166	3364	515
3C 1.5	1.5	10.7	41	148	30
3C 2.5	2.0	11.8	45	189	40
3C 4	2.4	12.7	48	233	53
3C 6	3.0	13.9	53	301	67
3C 10	3.9	16.1	61	439	94
3C 16	4.9	18.4	70	622	124
3C 25	6.1	22.0	84	904	163
3C 35	7.3	24.7	94	1218	202
3C 50	8.8	28.7	109	1693	254
3C 70	10.4	33.1	126	2300	318
3C 95	12.1	37.1	141	2988	381
3C 120	13.6	41.3	157	3735	450
3C 150	15.5	47.0	179	4814	515
3C 185	17.1	51.7	197	5794	586
3C 240	19.5	57.9	220	7306	698
3C 300	22.0	64.5	246	9169	799
4C 1.5	1.5	11.5	44	175	26
4C 2.5	2.0	12.7	48	228	34
4C 4	2.4	13.7	52	285	45
4C 6	3.0	15.1	58	373	57
4C 10	3.9	17.5	67	552	80
4C 16	4.9	20.1	77	791	106
4C 25	6.1	24.1	92	1159	140
4C 35	7.3	27.2	104	1570	173
4C 50	8.8	31.9	121	2213	218
4C 70	10.4	36.8	140	3009	273
4C 95	12.1	41.2	157	3915	327
4C 120	13.6	46.1	175	4924	387
4C 150	15.5	52.4	200	6344	444
4C 185	17.1	57.7	220	7636	505
4C 240	19.5	64.5	246	9628	602
4C 300	22.0	72.1	275	12124	688
5C 1.5	1.5	12.4	47	204	26
5C 2.5	2.0	13.7	52	268	34
5C 4	2.4	14.9	57	338	45
5C 6	3.0	16.4	63	446	57
5C 10	3.9	19.1	73	667	80
5C 16	4.9	22.0	84	962	106
5C 25	6.1	26.5	101	1417	140
5C 35	7.3	30.1	115	1945	173
5C 50	8.8	35.3	134	2743	218
5C 70	10.4	40.7	155	3729	273
5C 95	12.1	45.8	175	4882	327
5C 120	13.6	51.0	194	6107	387
5C 150	15.5	58.0	221	7868	444
5C 185	17.1	64.1	244	9509	505
5C 240	19.5	71.9	274	12027	602
5C 300	22.0	80.1	305	15087	688

Flexible Rubber Control (Fixed Wiring)

0.6/1KV 110°C



BM CONTROL

Applications

Flexible Control Cable designed for various applications, including indoor and outdoor settings, as well as in buried installations, enclosed conduits, or underground ducts, where it is not subjected of mechanical stress.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Sheath N-RUBBER, lead-free PVC thermoplastic, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500 m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 1660.5.1, AS/NZS 1660.5.6, AS/NZS 3808

Operating Temp

-40°C to +110°C

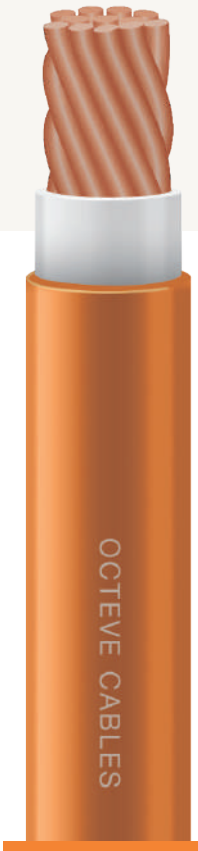
Voltage Level

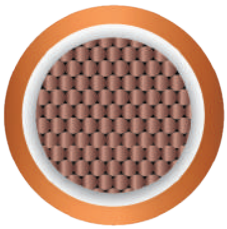
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
7C	1.5	1.5	13.4	51	231
12C	1.5	1.5	17.0	65	359
16C	1.5	1.5	18.7	71	450
19C	1.5	1.5	19.6	75	515
24C	1.5	1.5	22.7	87	640
27C	1.5	1.5	23.2	88	701
33C	1.5	1.5	24.9	95	830
37C	1.5	1.5	25.9	98	914
61C	1.5	1.5	32.3	123	1446
7C	2.5	2.0	14.8	56	314
12C	2.5	2.0	18.9	72	499
16C	2.5	2.0	20.9	80	634
19C	2.5	2.0	22.0	84	731
24C	2.5	2.0	25.6	97	912
27C	2.5	2.0	26.1	99	1003
33C	2.5	2.0	28.1	107	1196
37C	2.5	2.0	29.2	111	1323
61C	2.5	2.0	37.0	141	2146

Flexible LSHF Rubber SDI (Fixed Wiring)

0.6/1KV 110°C





BL
SDI

Applications

Flexible Flame Retardant Rubber Power Cable can be used for indoor and outdoor fixed wiring applications, including mains, sub-mains, and final sub-circuits, and can be installed on trays, ladders, and within conduits. It also offers the possibility for size reduction.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 50754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3808.1

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.8	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.1	20.4	25.0	95	1849	553
1C 240	19.5	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

BL
CONTROL

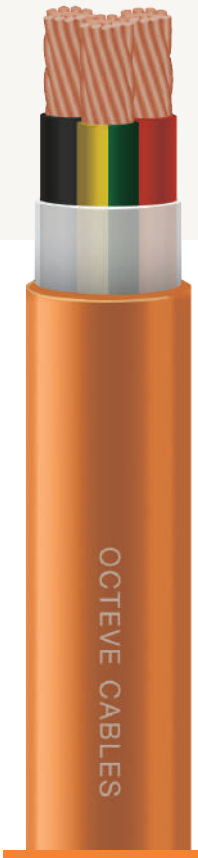
Flexible LSHF Rubber Control (Fixed Wiring)

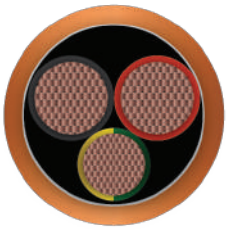
0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm^2)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
7C	1.5	1.5	13.4	51	231
12C	1.5	1.5	17.0	65	359
16C	1.5	1.5	18.7	71	450
19C	1.5	1.5	19.6	75	515
24C	1.5	1.5	22.7	87	640
27C	1.5	1.5	23.2	88	701
33C	1.5	1.5	24.9	95	830
37C	1.5	1.5	25.9	98	914
61C	1.5	1.5	32.3	123	1446
7C	2.5	2.0	14.8	56	314
12C	2.5	2.0	18.9	72	499
16C	2.5	2.0	20.9	80	634
19C	2.5	2.0	22.0	84	731
24C	2.5	2.0	25.6	97	912
27C	2.5	2.0	26.1	99	1003
33C	2.5	2.0	28.1	107	1196
37C	2.5	2.0	29.2	111	1323
61C	2.5	2.0	37.0	141	2146

Flexible LSHF Rubber Multi-core (Fixed Wiring)

0.6/1KV 110°C





BL
MULTI

Applications

Flexible Flame Retardant Rubber Power Cable can be used for indoor and outdoor fixed wiring applications, including mains, sub-mains, and final sub-circuits, and can be installed on trays, ladders, and within conduits. It also offers the possibility for size reduction.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 50754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3808.1

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Maximum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
2C 1.5	1.5	10.2	39	124	30
2C 2.5	2.0	11.2	43	154	40
2C 4	2.4	12.0	46	186	53
2C 6	3.0	13.2	50	235	67
2C 10	3.9	15.2	58	334	94
2C 16	4.9	17.3	66	462	124
2C 25	6.1	20.6	79	661	163
2C 35	7.3	23.2	88	879	202
2C 50	8.8	26.9	102	1208	254
2C 70	10.4	30.8	117	1618	318
2C 95	12.1	34.5	131	2094	381
2C 120	13.6	38.4	146	2612	450
2C 150	15.5	43.7	166	3364	515

BL MULTI

Flexible LSHF Rubber Multi-core (Fixed Wiring)

0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Maximum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Ambient: 40°C in Air (Amps)
3C	1.5	1.5	10.7	41	148	30
3C	2.5	2.0	11.8	45	189	40
3C	4	2.4	12.7	48	233	53
3C	6	3.0	13.9	53	301	67
3C	10	3.9	16.1	61	439	94
3C	16	4.9	18.4	70	622	124
3C	25	6.1	22.0	84	904	163
3C	35	7.3	24.7	94	1218	202
3C	50	8.8	28.7	109	1693	254
3C	70	10.4	33.1	126	2300	318
3C	95	12.1	37.1	141	2988	381
3C	120	13.6	41.3	157	3735	450
3C	150	15.5	47.0	179	4814	515
3C	185	17.1	51.7	197	5794	586
3C	240	19.5	57.9	220	7306	698
3C	300	22.0	64.5	246	9169	799
4C	1.5	1.5	11.5	44	175	26
4C	2.5	2.0	12.7	48	228	34
4C	4	2.4	13.7	52	285	45
4C	6	3.0	15.1	58	373	57
4C	10	3.9	17.5	67	552	80
4C	16	4.9	20.1	77	791	106
4C	25	6.1	24.1	92	1159	140
4C	35	7.3	27.2	104	1570	173
4C	50	8.8	31.9	121	2213	218
4C	70	10.4	36.8	140	3009	273
4C	95	12.1	41.2	157	3915	327
4C	120	13.6	46.1	175	4924	387
4C	150	15.5	52.4	200	6344	444
4C	185	17.1	57.7	220	7636	505
4C	240	19.5	64.5	246	9628	602
4C	300	22.0	72.1	275	12124	688
5C	1.5	1.5	12.4	47	204	26
5C	2.5	2.0	13.7	52	268	34
5C	4	2.4	14.9	57	338	45
5C	6	3.0	16.4	63	446	57
5C	10	3.9	19.1	73	667	80
5C	16	4.9	22.0	84	962	106
5C	25	6.1	26.5	101	1417	140
5C	35	7.3	30.1	115	1945	173
5C	50	8.8	35.3	134	2743	218
5C	70	10.4	40.7	155	3729	273
5C	95	12.1	45.8	175	4882	327
5C	120	13.6	51.0	194	6107	387
5C	150	15.5	58.0	221	7868	444
5C	185	17.1	64.1	244	9509	505
5C	240	19.5	71.9	274	12027	602
5C	300	22.0	80.1	305	15087	688

Flexible LSHF Fire Resistant SDI

0.6/1KV 110°C

FS
SDI

Applications

Flexible Fire Resistant control cable is designed for applications where maintaining circuit integrity in fire conditions is critical. It is specifically designed for environments that necessitate a Low Smoke, Zero Halogen rating at temperatures up to 110°C.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Flame Barrier Halogen free, glass mica tape

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, IEC 60331, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 1660.5.1, AS/NZS 1660.5.2, AS/NZS 1660.5.4, AS/NZS 1660.5.6, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

Operating Temp

-40°C to +110°C

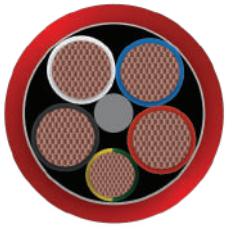
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	4.1	7.3	56	73	36
1C 4	2.4	4.6	7.7	59	87	48
1C 6	3.0	5.1	8.3	63	110	61
1C 10	3.9	6.0	9.3	71	156	85
1C 16	4.9	7.1	10.3	79	217	112
1C 25	6.1	8.6	12.0	92	310	149
1C 35	7.3	9.9	13.3	101	414	184
1C 50	8.8	11.6	15.1	115	570	233
1C 70	10.4	13.4	17.2	131	766	292
1C 95	12.1	15.0	18.9	144	985	353
1C 120	13.6	16.8	21.0	160	1233	418
1C 150	15.5	19.1	23.6	180	1580	482
1C 185	17.1	21.1	25.7	196	1889	553
1C 240	19.5	23.6	28.6	218	2374	665
1C 300	22.0	26.4	31.7	241	2971	766
1C 400	25.5	30.3	36.2	276	3916	918
1C 500	28.9	34.1	40.4	308	4908	1064
1C 630	33.0	38.6	45.3	345	6261	1240

Flexible LSHF Fire Resistant Control

0.6/1KV 110°C



FS CONTROL

Applications

Flexible Fire Resistant control cable is designed for applications where maintaining circuit integrity in fire conditions is critical. It is specifically designed for environments that necessitate a Low Smoke, Zero Halogen rating at temperatures up to 110°C.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Flame Barrier Halogen free, glass mica tape

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, IEC 60331, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
7C 1.5	1.5	15.5	118	284
12C 1.5	1.5	19.9	152	445
16C 1.5	1.5	22.0	167	559
19C 1.5	1.5	23.1	176	641
24C 1.5	1.5	27.0	205	798
27C 1.5	1.5	27.5	210	873
33C 1.5	1.5	29.8	227	1049
37C 1.5	1.5	31.0	236	1156
61C 1.5	1.5	39.3	299	1863
7C 2.5	2.0	17.0	130	375
12C 2.5	2.0	22.1	168	598
16C 2.5	2.0	24.4	186	759
19C 2.5	2.0	25.7	196	876
24C 2.5	2.0	30.3	231	1109
27C 2.5	2.0	31.0	236	1219
33C 2.5	2.0	33.6	256	1467
37C 2.5	2.0	34.9	266	1620
61C 2.5	2.0	44.2	337	2618

Flexible LSHF Fire Resistant Multi-core

0.6/1KV 110°C

FS
MULTI

Applications

Flexible Fire Resistant Power Cable designed for applications where maintaining circuit integrity in the event of fire. This cable is utilized in highly populated, enclosed areas, high-security environments, data centers, road tunnels, and rail tunnels. This is also appropriate for indoor and outdoor fixed wiring applications.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Flame Barrier Halogen free, glass mica tape

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, IEC 60331, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
2C 1.5	1.5	11.6	89	149	30
2C 2.5	2.0	12.7	97	182	40
2C 4	2.4	13.6	103	216	53
2C 6	3.0	14.7	112	267	67
2C 10	3.9	16.7	127	368	94
2C 16	4.9	18.8	143	501	124
2C 25	6.1	22.1	169	705	163
2C 35	7.3	24.7	188	927	202
2C 50	8.8	28.4	216	1262	254
2C 70	10.4	32.3	246	1679	318
2C 95	12.1	36.2	276	2182	381
2C 120	13.6	40.1	305	2711	450
2C 150	15.5	45.2	344	3451	515

FS
MULTI

Flexible LSHF
Fire Resistant Multi-core

0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
3C	1.5	1.5	12.3	93	179	30
3C	2.5	2.0	13.4	102	224	40
3C	4	2.4	14.3	109	270	53
3C	6	3.0	15.6	119	341	67
3C	10	3.9	17.7	135	484	94
3C	16	4.9	20.0	152	672	124
3C	25	6.1	23.6	180	962	163
3C	35	7.3	26.4	201	1282	202
3C	50	8.8	30.5	233	1783	254
3C	70	10.4	34.7	265	2383	318
3C	95	12.1	38.7	295	3081	381
3C	120	13.6	43.1	328	3866	450
3C	150	15.5	48.8	372	4962	515
3C	185	17.1	53.6	408	5956	586
3C	240	19.5	59.7	455	7487	698
3C	300	22.0	66.3	505	9370	799
4C	1.5	1.5	13.3	101	213	26
4C	2.5	2.0	14.5	111	271	34
4C	4	2.4	15.6	119	331	45
4C	6	3.0	17.0	129	422	57
4C	10	3.9	19.4	147	608	80
4C	16	4.9	21.9	167	854	106
4C	25	6.1	26.0	198	1232	140
4C	35	7.3	29.1	221	1652	173
4C	50	8.8	33.9	258	2326	218
4C	70	10.4	38.6	294	3117	273
4C	95	12.1	43.2	329	4060	327
4C	120	13.6	47.9	365	5064	387
4C	150	15.5	54.2	413	6501	444
4C	185	17.1	59.8	455	7841	505
4C	240	19.5	66.6	507	9857	602
4C	300	22.0	74.0	563	12338	688
5C	1.5	1.5	14.3	109	249	26
5C	2.5	2.0	15.7	120	319	34
5C	4	2.4	16.9	129	392	45
5C	6	3.0	18.5	141	505	57
5C	10	3.9	21.1	161	735	80
5C	16	4.9	24.0	183	1039	106
5C	25	6.1	28.5	217	1506	140
5C	35	7.3	32.2	245	2045	17
5C	50	8.8	37.5	286	2880	218
5C	70	10.4	43.0	327	3887	273
5C	95	12.1	47.9	365	5032	327
5C	120	13.6	53.2	406	6309	387
5C	150	15.5	60.3	459	8096	444
5C	185	17.1	66.4	506	9760	505
5C	240	19.5	73.9	563	12267	602
5C	300	22.0	82.3	627	15399	688

Flexible LSHF Fire Resistant
Collective Screened Instrumentation

450/750V 110°C

FH

• Applications

Flexible overall Screened Fire Resistant Instrumentation cable for transmitting digital or analogue signals.

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Drain Wire Tinned annealed copper

Screen Aluminium/Laminate tap

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, IEC 60331, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

• Operating Temp

-40°C to +110°C

• Voltage Level

450/750 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
2C 1.5	1.5	13.3	127	209	30
2C 2.5	2.0	14.4	137	248	40
2C 4	2.4	15.2	145	286	53
2C 6	3.0	16.4	156	344	67
2C 10	3.9	18.4	175	456	94
2C 16	4.9	20.5	195	600	124
2C 25	6.1	23.8	227	822	163
2C 35	7.3	26.4	251	1058	202
2C 50	8.7	30.3	288	1427	254
2C 70	10.4	34.2	326	1862	318
2C 95	12.1	37.9	361	2362	381
2C 120	13.6	41.8	398	2905	450
2C 150	15.5	47.1	448	3686	515

FH

Flexible LSHF Fire Resistant
Collective Screened Instrumentation

450/750V 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C	1.5	1.5	13.9	133	242	30
3C	2.5	2.0	15.1	144	294	40
3C	4	2.4	16.0	152	345	53
3C	6	3.0	17.3	164	423	67
3C	10	3.9	19.4	185	578	94
3C	16	4.9	21.7	206	778	124
3C	25	6.1	25.3	241	1087	163
3C	35	7.3	28.1	267	1422	202
3C	50	8.7	32.2	307	1941	254
3C	70	10.4	36.6	349	2577	318
3C	95	12.1	40.6	387	3292	381
3C	120	13.6	44.8	427	4070	450
3C	150	15.5	50.5	481	5182	515
4C	1.5	1.5	14.9	142	282	26
4C	2.5	2.0	16.2	154	347	34
4C	4	2.4	17.3	164	412	45
4C	6	3.0	18.7	178	512	57
4C	10	3.9	21.0	200	711	80
4C	16	4.9	23.6	225	970	106
4C	25	6.1	27.6	263	1370	140
4C	35	7.3	31.0	295	1820	173
4C	50	8.7	35.6	339	2498	218
4C	70	10.4	40.5	386	3327	273
4C	95	12.1	44.9	428	4265	327
4C	120	13.6	49.8	474	5308	387
4C	150	15.5	56.1	535	6764	444
4C	185	17.0	61.6	587	8118	505
4C	240	19.6	68.5	652	10149	602
5C	1.5	1.5	16.0	152	323	26
5C	2.5	2.0	17.4	166	402	34
5C	4	2.4	18.6	177	481	45
5C	6	3.0	20.2	192	603	57
5C	10	3.9	22.8	217	847	80
5C	16	4.9	25.7	245	1166	106
5C	25	6.1	30.4	289	1672	140
5C	35	7.3	34.1	325	2228	173
5C	50	8.7	39.4	375	3085	218
5C	70	10.4	44.6	425	4090	273
5C	95	12.1	49.8	474	5276	327
5C	120	13.6	54.9	523	6542	387
5C	150	15.5	62.2	592	8375	444
5C	185	17.0	68.3	650	10052	505
5C	240	19.6	75.8	722	12572	602

Flexible LSHF Fire Resistant Alarm/Signal

450/750V 110°C

FA

Applications

Fire Resistant alarm cable ensures operational continuity during emergency-fires. It is used in fire alarm services, and EWIS systems to maintain functionality for up to 2 hours under high temperatures conditions.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Flame Barrier Halogen free, glass mica tape

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Sheath HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, IEC 60331, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 1660.5.1, AS/NZS 1660.5.2, AS/NZS 1660.5.4, AS/NZS 1660.5.6, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3013

Operating Temp

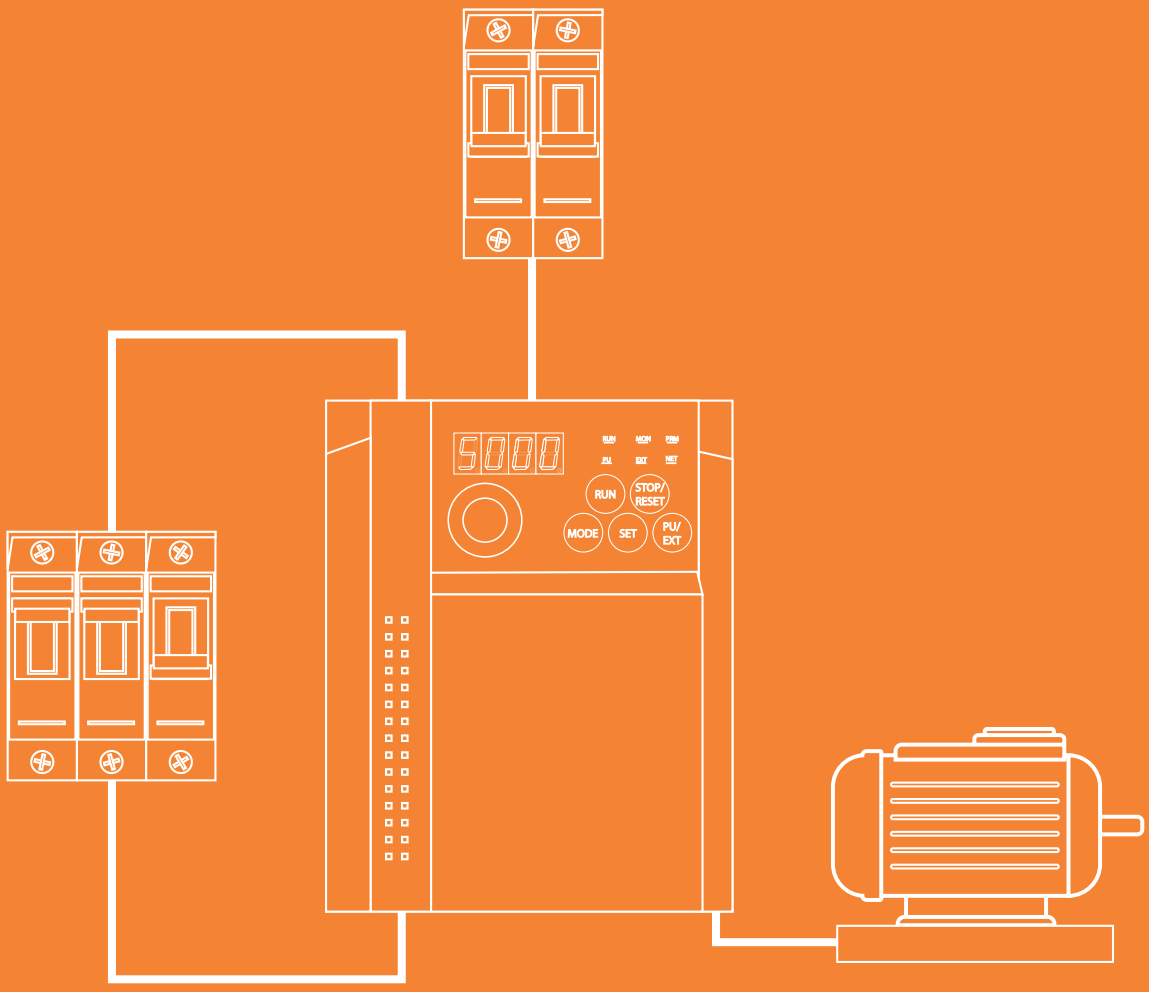
-40°C to +110°C

Voltage Level

450/750 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
2C 0.75	1.1	9.2	73	75
3C 0.75	1.1	9.7	77	93
4C 0.75	1.1	10.7	86	118
5C 0.75	1.1	11.6	93	138
6C 0.75	1.1	12.6	101	159
7C 0.75	1.1	12.6	101	173
2C 1	1.3	9.5	76	82
3C 1	1.3	10	80	102
4C 1	1.3	11.1	89	130
5C 1	1.3	12	96	153
6C 1	1.3	13.1	104	177
7C 1	1.3	13.1	104	194
2C 1.5	1.5	10	80	96
3C 1.5	1.5	10.7	86	127
4C 1.5	1.5	11.7	93	156
5C 1.5	1.5	12.7	102	185
6C 1.5	1.5	14	112	221
7C 1.5	1.5	14	112	243

VARIABLE SPEED DRIVES /EMC



Flexible Rubber Control Collective Screened & Braided EMC

0.6/1KV 90°C

PD CONTROL

Applications

Flexible Rubber Cable used for wiring applications that require electromagnetic compatibility or sensitive signal protection

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Screen	Aluminium/Laminate tap
Braid	Tinned Copper Wire Braid with 90% coverage.
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1 IEC 60332-3-22 AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

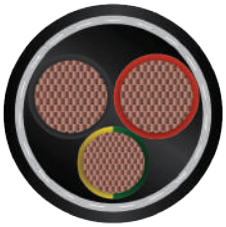
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
7C	1.5	1.5	15.0	86	321
12C	1.5	1.5	18.7	107	476
16C	1.5	1.5	20.4	116	580
19C	1.5	1.5	21.3	122	652
24C	1.5	1.5	24.4	139	800
27C	1.5	1.5	24.9	142	864
33C	1.5	1.5	26.6	152	1006
37C	1.5	1.5	27.5	157	1097
61C	1.5	1.5	34.2	195	1692
7C	2.5	2.0	16.5	94	415
12C	2.5	2.0	20.6	118	631
16C	2.5	2.0	22.6	129	779
19C	2.5	2.0	23.6	135	885
24C	2.5	2.0	27.2	156	1092
27C	2.5	2.0	27.8	159	1188
33C	2.5	2.0	30.0	171	1409
37C	2.5	2.0	31.0	177	1545
61C	2.5	2.0	38.7	221	2409

Flexible Rubber Control Collective Screened & Braided EMC

0.6/1KV 90°C



PD MULTI

Applications

Flexible Rubber Cable used for wiring applications that require electromagnetic compatibility or sensitive signal protection

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Screen	Aluminium/Laminate tap
Braid	Tinned Copper Wire Braid with 90% coverage.
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1 IEC 60332-3-22 AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
2C 1.5	1.5	11.9	68	176	24
2C 2.5	2.0	12.9	73	212	32
2C 4	2.4	13.7	78	248	43
2C 6	3.0	14.9	85	304	55
2C 10	3.9	16.9	96	413	78
2C 16	4.9	19.0	108	553	103
2C 25	6.1	22.3	128	770	136
2C 35	7.3	24.9	142	1002	169
2C 50	8.7	28.5	163	1350	213
2C 70	10.4	32.5	185	1778	269
2C 95	12.1	36.4	208	2286	322
2C 120	13.6	40.2	230	2821	381
2C 150	15.5	45.6	260	3592	438

PD MULTI

Flexible Rubber Control Collective Screened & Braided EMC

0.6/1KV 90°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C	1.5	1.5	12.4	71	203	24
3C	2.5	2.0	13.4	77	250	32
3C	4	2.4	14.4	82	299	43
3C	6	3.0	15.6	89	374	55
3C	10	3.9	17.8	101	524	78
3C	16	4.9	20.0	115	719	103
3C	25	6.1	23.6	135	1020	136
3C	35	7.3	26.4	151	1349	169
3C	50	8.7	30.6	175	1859	213
3C	70	10.4	34.8	199	2468	269
3C	95	12.1	38.8	221	3172	322
3C	120	13.6	43.1	247	3955	381
3C	150	15.5	48.9	279	5054	438
4C	1.5	1.5	13.2	76	235	20
4C	2.5	2.0	14.4	82	294	27
4C	4	2.4	15.4	88	356	36
4C	6	3.0	16.8	96	452	46
4C	10	3.9	19.2	110	645	66
4C	16	4.9	21.8	124	891	87
4C	25	6.1	25.8	147	1287	116
4C	35	7.3	28.9	165	1715	144
4C	50	8.7	33.8	193	2394	182
4C	70	10.4	38.5	220	3191	230
4C	95	12.1	43.1	246	4135	275
4C	120	13.6	74.7	273	5137	327
4C	150	15.5	54.1	309	6574	375
4C	185	17.0	59.6	341	7909	428
4C	240	19.6	66.4	380	9918	511
5C	1.5	1.5	14.1	81	268	20
5C	2.5	2.0	15.4	88	339	27
5C	4	2.4	16.6	95	415	36
5C	6	3.0	18.1	104	532	46
5C	10	3.9	20.8	119	768	66
5C	16	4.9	23.6	135	1079	87
5C	25	6.1	28.1	161	1558	116
5C	35	7.3	31.8	182	2101	144
5C	50	8.7	37.2	212	2939	182
5C	70	10.4	42.6	243	3947	230
5C	95	12.1	47.5	271	5094	275
5C	120	13.6	52.9	302	6361	327
5C	150	15.5	59.9	342	8142	375
5C	185	17.0	66.0	377	9798	428
5C	240	19.6	73.6	420	12291	511

Flexible Rubber SDI

Collective Screened & Braided VSD/VFD

0.6/1KV 90°C

XD
SDI

• Applications

Flexible Rubber Cable used for wiring applications that require electromagnetic compatibility or sensitive signal protection

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Screen Aluminium/Laminate tap

Braid Tinned Copper Wire Braid with 90% coverage.

Separator Polypropylene tape

Sheath N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp

-40°C to +90°C

• Voltage Level

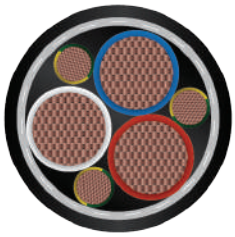
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
1C 10	3.9	10.4	60	202	69
1C 16	4.9	11.5	66	269	91
1C 25	6.1	13.2	75	373	121
1C 35	7.3	14.4	83	485	151
1C 50	8.7	16.3	93	654	191
1C 70	10.4	18.3	105	862	241
1C 95	12.1	20.3	116	1102	290
1C 120	13.6	22.1	126	1352	346
1C 150	15.5	24.8	142	1717	400
1C 185	17.0	27.1	155	2056	459
1C 240	19.6	29.9	171	2558	553
1C 300	22.0	33.0	189	3178	637
1C 400	25.5	37.3	213	4141	764
1C 500	28.9	41.5	237	5167	884
1C 630	33.0	46.7	267	6584	1030

Flexible Rubber Multi-core

Collective Screened & Braided VSD/VFD

0.6/1KV 90°C



XD MULTI

• Applications

Flexible Braided Overall Screened Cable designed for variable speed drives and variable frequency drives

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Screen Aluminium/Laminate tap

Braid Tinned Copper Wire Braid or Galvanised Steel Wire Braid with 90% coverag.

Separator Polypropylene tape

Sheath N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp

-40°C to +90°C

• Voltage Level

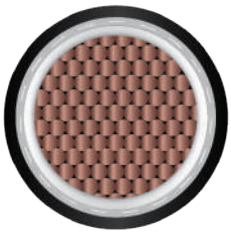
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C2.5	3C1.5	2.0	15.7	90	346	27
3C4	3C1.5	2.4	16.4	94	390	36
3C6	3C1.5	3.0	17.3	99	458	46
3C10	3C2.5	3.9	18.3	105	620	66
3C16	3C2.5	4.9	19.9	114	801	87
3C25	3C4	6.1	23.4	134	1134	116
3C35	3C6	7.3	26.0	149	1515	144
3C50	3C10	8.7	30.1	172	2138	182
3C70	3C10	10.4	34.3	196	2747	230
3C95	3C16	12.1	38.2	218	3603	275
3C120	3C16	13.6	42.5	243	4385	327
3C150	3C25	15.5	47.9	274	5696	375
3C185	3C25	17.0	52.8	301	6714	428
3C240	3C35	19.6	58.8	336	8520	511

Flexible Rubber SDI

Collective Screened & Braided VSD/VFD

0.6/1KV 110°C



RD
SDI

• Applications

Flexible Rubber Cable used for wiring applications that require electromagnetic compatibility or sensitive signal protection

• Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Screen	Aluminium/Laminate tap
Braid	Tinned Copper Wire Braid with 90% coverage.
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

• Insulation Color To customer specification

• Standards IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp -40°C to +110°C

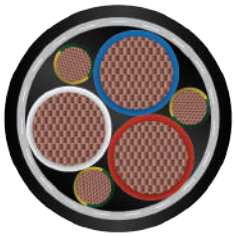
• Voltage Level 600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
1C 10	3.9	10.4	60	202	85
1C 16	4.9	11.5	66	269	112
1C 25	6.1	13.2	75	373	149
1C 35	7.3	14.4	83	485	184
1C 50	8.7	16.3	93	654	233
1C 70	10.4	18.3	105	862	292
1C 95	12.1	20.3	116	1102	353
1C 120	13.6	22.1	126	1352	418
1C 150	15.5	24.8	142	1717	482
1C 185	17.0	27.1	155	2056	553
1C 240	19.6	29.9	171	2558	665
1C 300	22.0	33.0	189	3178	766
1C 400	25.5	37.3	213	4141	918
1C 500	28.9	41.5	237	5167	1064
1C 630	33.0	46.7	267	6584	1240

Flexible Rubber Multi-core

Collective Screened & Braided VSD/VFD

0.6/1KV 90°C



XD MULTI

• Applications

Flexible Braided Overall Screened Cable designed for variable speed drives and variable frequency drives

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Screen Aluminium/Laminate tap

Braid Tinned Copper Wire Braid or Galvanised Steel Wire Braid with 90% coverag.

Separator Polypropylene tape

Sheath N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp

-40°C to +90°C

• Voltage Level

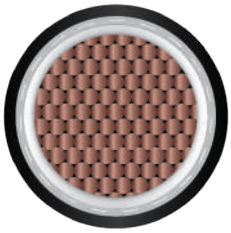
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C2.5	3C1.5	2.0	15.7	90	346	27
3C4	3C1.5	2.4	16.4	94	390	36
3C6	3C1.5	3.0	17.3	99	458	46
3C10	3C2.5	3.9	18.3	105	620	66
3C16	3C2.5	4.9	19.9	114	801	87
3C25	3C4	6.1	23.4	134	1134	116
3C35	3C6	7.3	26.0	149	1515	144
3C50	3C10	8.7	30.1	172	2138	182
3C70	3C10	10.4	34.3	196	2747	230
3C95	3C16	12.1	38.2	218	3603	275
3C120	3C16	13.6	42.5	243	4385	327
3C150	3C25	15.5	47.9	274	5696	375
3C185	3C25	17.0	52.8	301	6714	428
3C240	3C35	19.6	58.8	336	8520	511

Flexible LSHF Rubber SDI

Collective Screened & Braided VSD/VFD

0.6/1KV 110°C



ED
SDI

• Applications

Flexible Rubber Cable used for wiring applications that require electromagnetic compatibility or sensitive signal protection

• Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Screen	Aluminium/Laminate tap
Braid	Tinned Copper Wire Braid with 90% coverage.
Separator	Polypropylene tape
Sheath	HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp

-40°C to +110°C

• Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
1C 10	3.9	10.4	60	202	85
1C 16	4.9	11.5	66	269	112
1C 25	6.1	13.2	75	373	149
1C 35	7.3	14.4	83	485	184
1C 50	8.7	16.3	93	654	233
1C 70	10.4	18.3	105	862	292
1C 95	12.1	20.3	116	1102	353
1C 120	13.6	22.1	126	1352	418
1C 150	15.5	24.8	142	1717	482
1C 185	17.0	27.1	155	2056	553
1C 240	19.6	29.9	171	2558	665
1C 300	22.0	33.0	189	3178	766
1C 400	25.5	37.3	213	4141	918
1C 500	28.9	41.5	237	5167	1064
1C 630	33.0	46.7	267	6584	1240

Flexible LSHF Rubber Multi-core
Collective Screened & Braided VSD/VFD
0.6/1KV 110°C

• Applications

Flexible Braided Overall Screened Cable designed for variable speed drives and variable frequency drives

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Screen Aluminium/Laminate tap

Braid Tinned Copper Wire Braid or Galvanised Steel Wire Braid with 90% coverage.

Separator Polypropylene tape

Sheath HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

• Insulation Color
To customer specification

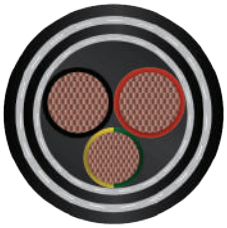
• Standards
IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp
-40°C to +110°C

• Voltage Level
600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C2.5	3C1.5	2.0	15.7	90	346	34
3C4	3C1.5	2.4	16.4	94	390	45
3C6	3C1.5	3.0	17.3	99	458	57
3C10	3C2.5	3.9	18.3	105	620	80
3C16	3C2.5	4.9	19.9	114	801	106
3C25	3C4	6.1	23.4	134	1134	140
3C35	3C6	7.3	26.0	149	1515	173
3C50	3C10	8.7	30.1	172	2138	218
3C70	3C10	10.4	34.3	196	2747	273
3C95	3C16	12.1	38.2	218	3603	327
3C120	3C16	13.6	42.5	243	4385	387
3C150	3C25	15.5	47.9	274	5696	444
3C185	3C25	17.0	52.8	301	6714	505
3C240	3C35	19.6	58.8	336	8520	602

Flexible Rubber
Braided/Armoured Power and Control
0.6/1KV 110°C



KD

• Applications

Flexible Power and Control Cable that is used in environments that require mechanical or EMC protection

• Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Screen	Aluminium/Laminate tap with Drain Wire
Bedding	N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant
Braid	Tinned Copper Wire Braid or Galvanised Steel Wire Braid with 90% coverage.
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

• Insulation Color To customer specification

• Standards IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp -40°C to +110°C

• Voltage Level 600/1000 Volts

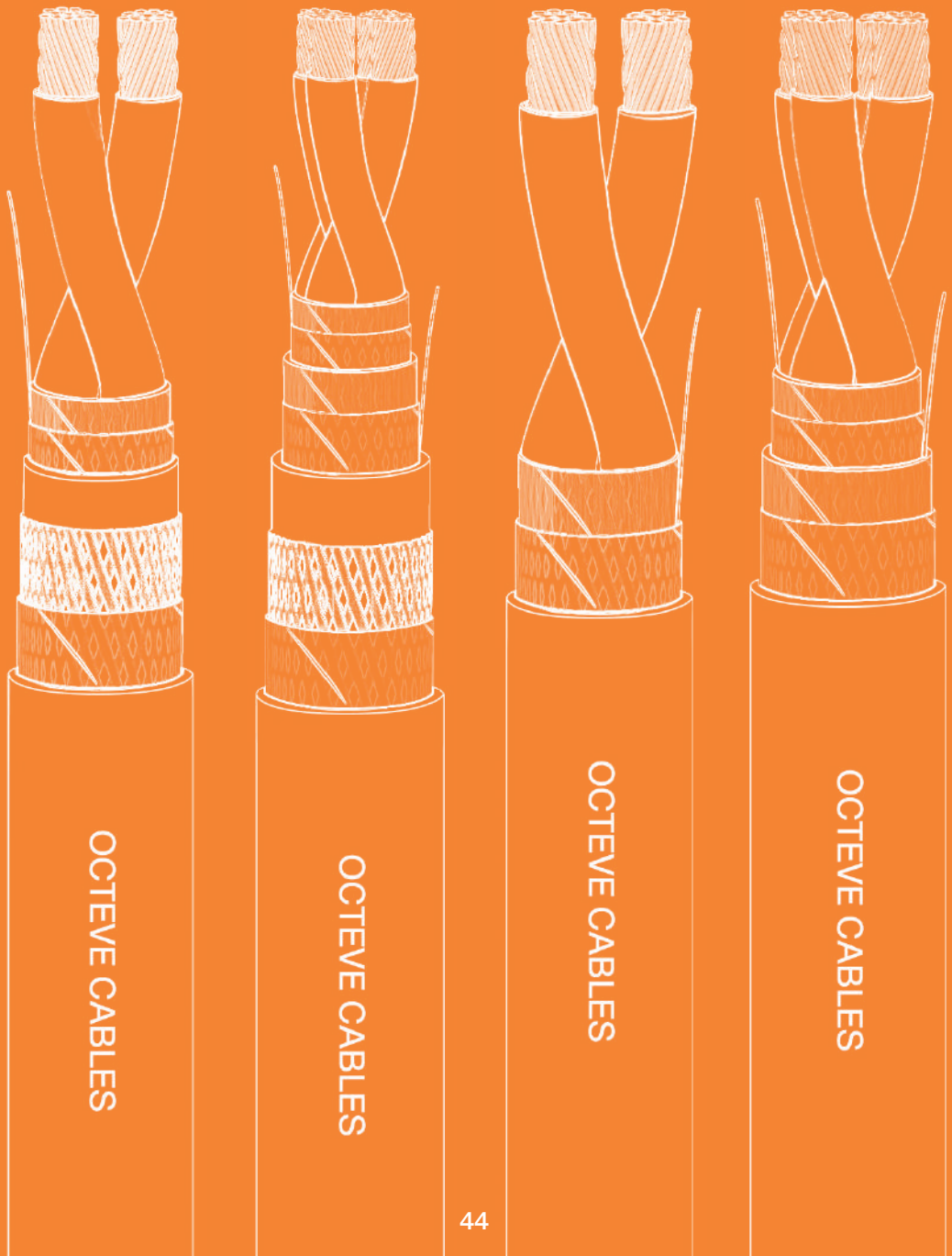
Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
2C 1.5	1.5	14.0	80	257	30
2C 2.5	2.0	15.0	86	299	40
2C 4	2.4	15.9	91	343	53
2C 6	3.0	17.1	98	407	67
2C 10	3.9	19.1	109	532	94
2C 16	4.9	21.3	121	689	124
2C 25	6.1	24.7	141	935	163
2C 35	7.3	27.3	156	1188	202
2C 50	8.7	31.3	179	1586	254
2C 70	10.4	35.9	205	2110	318
2C 95	12.1	39.7	227	2646	381
2C 120	13.6	43.7	250	3229	450
2C 150	15.5	49.6	283	4125	515

KD

Flexible Rubber
Braided/Armoured Power and Control
0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C	1.5	1.5	14.5	83	287	30
3C	2.5	2.0	15.6	89	341	40
3C	4	2.4	16.5	95	398	53
3C	6	3.0	17.8	102	482	67
3C	10	3.9	20.0	114	650	94
3C	16	4.9	22.3	128	864	124
3C	25	6.1	26.0	149	1197	163
3C	35	7.3	28.9	165	1550	202
3C	50	8.7	33.4	191	2115	254
3C	70	10.4	38.1	218	2811	318
3C	95	12.1	42.4	242	3582	381
3C	120	13.6	46.6	267	4400	450
3C	150	15.5	52.9	302	5635	515
4C	1.5	1.5	15.4	88	325	26
4C	2.5	2.0	16.5	94	393	34
4C	4	2.4	17.6	101	463	45
4C	6	3.0	19.1	109	570	57
4C	10	3.9	21.5	123	782	80
4C	16	4.9	24.1	138	1057	106
4C	25	6.1	28.3	161	1483	140
4C	35	7.3	31.7	181	1953	173
4C	50	8.7	37.0	212	2724	218
4C	70	10.4	41.9	239	3578	273
4C	95	12.1	46.6	266	4579	327
4C	120	13.6	52.0	297	5727	387
4C	150	15.5	58.5	334	7263	444
4C	185	17.0	64.3	368	8732	505
4C	240	19.6	71.5	409	10895	602
5C	1.5	1.5	16.3	93	365	26
5C	2.5	2.0	17.6	100	446	34
5C	4	2.4	18.8	107	531	45
5C	6	3.0	20.4	116	661	57
5C	10	3.9	23.1	132	919	80
5C	16	4.9	26.0	149	1255	106
5C	25	6.1	30.9	176	1791	140
5C	35	7.3	34.6	198	2369	173
5C	50	8.7	40.5	232	3309	218
5C	70	10.4	46.1	263	4384	273
5C	95	12.1	51.5	294	5656	327
5C	120	13.6	57.0	326	7003	387
5C	150	15.5	64.9	371	9001	444
5C	185	17.0	70.9	405	10735	505
5C	240	19.6	79.3	453	13498	602

INSTRUMENTATION



Flexible Rubber Collective Screened Instrumentation

450/750V 110°C

IT

Applications

Flexible Collective Screened Instrumentation Cable designed for transmitting transducer-generated signals through panels and controllers.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Screen Aluminium Laminate Tape with Drain wire

Separator Polypropylene tape

Sheath N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808

Operating Temp

-40°C to +110°C

Voltage Level

450/750 Volts

Number of Pairs (P) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P 0.75	1.1	8.6	33	77
2P 0.75*	1.1	9.5	36	105
4P 0.75	1.1	13.9	53	216
6P 0.75	1.1	15.6	60	274
8P 0.75	1.1	17.8	68	344
10P 0.75	1.1	19.2	73	379
12P 0.75	1.1	20.9	80	450
16P 0.75	1.1	23.1	88	569
20P 0.75	1.1	24.2	92	666
24P 0.75	1.1	25.4	97	763
27P 0.75	1.1	26.6	101	854
36P 0.75	1.1	30.5	116	1110

IT

Flexible Rubber Collective Screened Instrumentation

450/750V 110°C

Number of Pairs (P) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P	1	1.3	8.9	34	86
2P	1*	1.3	9.8	37	118
4P	1	1.3	14.5	55	246
6P	1	1.3	16.4	62	314
8P	1	1.3	18.7	71	395
10P	1	1.3	20.3	77	447
12P	1	1.3	22.0	84	517
16P	1	1.3	24.2	92	67
20P	1	1.3	25.4	97	773
24P	1	1.3	26.9	102	904
27P	1	1.3	27.9	106	994
36P	1	1.3	32.1	122	1295
1P	1.5	1.5	9.5	36	101
2P	1.5*	1.5	10.8	41	150
4P	1.5	1.5	15.8	60	310
6P	1.5	1.5	18.0	69	410
8P	1.5	1.5	20.6	78	516
10P	1.5	1.5	22.2	85	571
12P	1.5	1.5	24.2	92	678
16P	1.5	1.5	26.7	102	865
20P	1.5	1.5	28.0	107	1024
24P	1.5	1.5	29.7	113	1200
27P	1.5	1.5	30.8	117	1324
36P	1.5	1.5	35.4	135	1730
1P	2.5	2.0	10.7	41	136
2P	2.5*	2.0	11.9	45	202
4P	2.5	2.0	18.0	69	442
6P	2.5	2.0	20.6	78	589
8P	2.5	2.0	23.5	89	743
10P	2.5	2.0	25.3	97	822
12P	2.5	2.0	27.7	105	977
16P	2.5	2.0	30.6	116	1254
20P	2.5	2.0	32.0	122	1497
24P	2.5	2.0	33.9	129	1761
27P	2.5	2.0	35.3	134	1949
36P	2.5	2.0	40.8	155	2578

Number of Triads (T) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1T	0.75	1.1	9.0	34	90
3T	0.75	1.1	13.2	50	192
4T	0.75	1.1	14.5	55	240
7T	0.75	1.1	17.5	66	370
24T	0.75	1.1	31.1	119	1116
1T	1	1.3	9.3	35	101
3T	1	1.3	14.0	53	227
4T	1	1.3	15.2	58	275
7T	1	1.3	18.3	70	427
24T	1	1.3	32.9	125	1320
1T	1.5	1.5	9.9	38	122
3T	1.5	1.5	15.2	58	283
4T	1.5	1.5	16.7	64	358
7T	1.5	1.5	20.1	77	562
24T	1.5	1.5	36.3	138	1756
1T	2.5	2.0	11.2	43	167
3T	2.5	2.0	17.2	66	402
4T	2.5	2.0	18.8	72	500
7T	2.5	2.0	22.8	87	802
24T	2.5	2.0	41.6	159	2582

Flexible Rubber Individual & Collective Screened Instrumentation

450/750V 110°C

IG

Applications

Flexible Collective Screened Instrumentation Cable designed for transmitting transducer-generated signals through panels and controllers.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Screen Aluminium Laminate Tape with Drain wire

Separator Polypropylene tape

Sheath N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Excellent abrasion resistance. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808

Operating Temp

-40°C to +110°C

Voltage Level

450/750 Volts

Number of Pairs (P) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P 0.75	1.1	8.6	33	77
2P 0.75	1.1	13.1	50	151
4P 0.75	1.1	15.2	58	254
6P 0.75	1.1	18.2	69	343
8P 0.75	1.1	19.6	75	408
10P 0.75	1.1	21.4	81	463
12P 0.75	1.1	23.3	89	548
16P 0.75	1.1	25.5	97	680
20P 0.75	1.1	26.9	103	813
24P 0.75	1.1	28.6	109	937
27P 0.75	1.1	30.2	115	1051
36P 0.75	1.1	34	130	1356

IG

Flexible Rubber Individual & Collective Screened Instrumentation

450/750V 110°C

Number of Pairs (P) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P	1	1.3	8.9	34	86
2P	1	1.3	13.8	53	178
4P	1	1.3	15.9	60	295
6P	1	1.3	19	72	399
8P	1	1.3	20.7	79	489
10P	1	1.3	22.3	85	541
12P	1	1.3	24.4	93	641
16P	1	1.3	26.9	102	815
20P	1	1.3	28.1	107	961
24P	1	1.3	30.1	115	1129
27P	1	1.3	31.6	120	1247
36P	1	1.3	35.6	136	1615
1P	1.5	1.5	9.5	36	101
2P	1.5	1.5	14.8	56	209
4P	1.5	1.5	17.3	66	369
6P	1.5	1.5	20.8	79	500
8P	1.5	1.5	22.4	85	602
10P	1.5	1.5	24.4	93	681
12P	1.5	1.5	26.6	101	807
16P	1.5	1.5	29.2	111	1014
20P	1.5	1.5	30.8	117	1221
24P	1.5	1.5	32.9	125	1436
27P	1.5	1.5	34.5	131	1589
36P	1.5	1.5	39.1	149	2086
1P	2.5	2.0	10.7	41	136
2P	2.5	2.0	16.4	63	271
4P	2.5	2.0	19.3	74	504
6P	2.5	2.0	23.4	89	701
8P	2.5	2.0	25.3	96	852
10P	2.5	2.0	27.6	105	959
12P	2.5	2.0	30.1	115	1139
16P	2.5	2.0	33.2	127	1462
20P	2.5	2.0	34.8	133	1746
24P	2.5	2.0	37.2	142	2059
27P	2.5	2.0	39.3	150	2308
36P	2.5	2.0	44.3	169	3005

Number of Triads (T) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1T	0.75	1.1	9	34	90
3T	0.75	1.1	14.5	55	226
4T	0.75	1.1	15.8	60	274
7T	0.75	1.1	19.1	73	423
24T	0.75	1.1	35.2	134	1316
1T	1	1.3	9.3	35	101
3T	1	1.3	15.1	58	259
4T	1	1.3	16.7	64	326
7T	1	1.3	20.1	77	506
24T	1	1.3	37	141	1573
1T	1.5	1.5	9.9	38	122
3T	1.5	1.5	16.3	62	317
4T	1.5	1.5	18	69	401
7T	1.5	1.5	21.8	83	633
24T	1.5	1.5	40.5	154	2023
1T	2.5	2	11.2	43	167
3T	2.5	2	18.4	70	444
4T	2.5	2	20.3	78	565
7T	2.5	2	24.6	94	904
24T	2.5	2	46.1	176	2943

Flexible Rubber Collective Screened Braided/ Amoured Instrumentation

450/750V 110°C

IC

Applications

Braiding helps minimize the risk of external electromagnetic interference (EMC) to the electrical set up.

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Screen	Aluminium Laminate Tape
Drain Wire	Tinned Annealed Copper
Separator	Polypropylene tape
Bedding	N-RUBBER, Flame Retardant, Thermoplastic, Elastomeric.
Braid	Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Excellent abrasion resistance. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

- **Standards** IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808
- **Insulation Color** To customer specification
- **Operating Temp** -40°C to +110°C
- **Voltage Level** 450/750 Volts

Collective Screened Bedded Braided

Number of Pairs (P) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Diameter Over Bedding (mm)	Diameter Over Braid (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P 0.75	1.1	8	9.4	12.6	72	220
2P 0.75*	1.1	8.8	10.2	13.7	78	269
4P 0.75	1.1	12.8	14.2	18	103	441
6P 0.75	1.1	14.5	15.9	20	114	537
8P 0.75	1.1	16.4	17.8	22	126	630
10P 0.75	1.1	17.7	19.1	23.6	135	701
12P 0.75	1.1	19.2	20.6	25.2	144	787
16P 0.75	1.1	21.1	22.5	27.4	157	943
20P 0.75	1.1	22.1	23.5	28.5	163	1058
24P 0.75	1.1	23.4	24.8	30	171	1192
27P 0.75	1.1	24.3	25.7	31	177	1286
36P 0.75	1.1	28.3	29.7	35.4	202	1653

IC

Flexible Rubber Collective Screened Braided/Amoured Instrumentation

450/750V 110°C

Number of Pairs (P) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter Over Bedding (mm)	Diameter Over Braid (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P	1	1.3	8.3	9.7	12.9	74	234
2P	1*	1.3	9.2	10.6	14.1	80	289
4P	1	1.3	13.4	14.8	18.7	107	481
6P	1	1.3	15.2	16.6	20.8	119	590
8P	1	1.3	17.2	18.6	23.1	132	708
10P	1	1.3	18.6	20.0	24.6	140	774
12P	1	1.3	20.2	21.6	26.5	151	887
16P	1	1.3	22.2	23.6	28.6	163	1050
20P	1	1.3	23.3	24.7	30.0	171	1202
24P	1	1.3	24.6	26.0	31.3	179	1341
27P	1	1.3	25.6	27.0	32.4	185	1450
36P	1	1.3	29.9	31.3	37.2	213	1890
1P	1.5	1.5	8.9	10.3	13.7	78	265
2P	1.5*	1.5	9.9	11.3	14.8	85	326
4P	1.5	1.5	14.6	16.0	20.2	115	576
6P	1.5	1.5	16.6	18.0	22.2	127	701
8P	1.5	1.5	18.9	20.3	24.8	142	848
10P	1.5	1.5	20.4	21.8	26.7	153	944
12P	1.5	1.5	22.2	23.6	28.6	163	1070
16P	1.5	1.5	24.5	25.9	31.1	178	1300
20P	1.5	1.5	25.7	27.1	32.4	185	1482
24P	1.5	1.5	27.1	28.5	34.1	195	1686
27P	1.5	1.5	28.7	30.1	36.0	206	1894
36P	1.5	1.5	32.9	34.3	40.6	232	2392
1P	2.5	2.0	9.8	11.2	14.7	84	310
2P	2.5*	2.0	11	12.4	16.0	91	395
4P	2.5	2.0	16.5	17.9	22.2	127	732
6P	2.5	2.0	18.8	20.2	24.8	142	921
8P	2.5	2.0	21.5	22.9	27.8	159	1122
10P	2.5	2.0	23.3	24.7	29.9	171	1251
12P	2.5	2.0	25.4	26.8	32.1	184	1430
16P	2.5	2.0	28.4	29.8	35.5	203	1800
20P	2.5	2.0	29.8	31.2	37.2	213	2093
24P	2.5	2.0	31.5	32.9	39.1	224	2392
27P	2.5	2.0	32.8	34.2	40.5	232	2608
36P	2.5	2.0	37.7	39.1	46.1	264	3350

Number of Triads (T) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter Over Bedding (mm)	Diameter Over Braid (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1T	0.75	1.1	8.3	9.7	12.8	73	231
3T	0.75	1.1	12.2	13.6	17.1	97	395
4T	0.75	1.1	13.3	14.7	18.4	105	463
7T	0.75	1.1	16.0	17.4	21.4	122	637
24T	0.75	1.1	28.9	30.3	36.0	206	1676
1T	1	1.3	8.7	10.1	13.1	75	248
3T	1	1.3	12.8	14.2	17.9	102	441
4T	1	1.3	14.0	15.4	19.1	109	508
7T	1	1.3	16.8	18.2	22.3	127	708
24T	1	1.3	30.5	31.9	37.9	217	1918
1T	1.5	1.5	9.3	10.7	13.7	79	277
3T	1.5	1.5	14.0	15.4	19.1	109	518
4T	1.5	1.5	15.3	16.7	20.7	118	614
7T	1.5	1.5	18.4	19.8	24.2	138	873
24T	1.5	1.5	33.6	35.0	41.4	237	2414
1T	2.5	2.0	10.3	11.7	15.0	86	340
3T	2.5	2.0	15.8	17.2	21.2	121	666
4T	2.5	2.0	17.3	18.7	22.8	130	789
7T	2.5	2.0	21.0	22.4	27.1	155	1174
24T	2.5	2.0	39.0	40.4	47.4	271	3436

Flexible Rubber Individual & Collective Screened Braided/Amoured Instrumentation

450/750V 110°C

Applications

Flexible Individual and Collective Screened Instrumentation Cable where Braiding helps minimize to risk of external electromagnetic interference (EMC) to the electrical set up individual screens and reduces circuit runs within the cable.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Screen Aluminium Laminate Tape

Drain Wire Tinned Annealed Copper

Separator Polypropylene tape

Bedding N-RUBBER, Flame Retardant, Thermoplastic, Elastomeric.

Braid Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.

Separator Polypropylene tape

Sheath N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Excellent abrasion resistance. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Standards IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808

Insulation Color To customer specification

Operating Temp -40°C to +110°C

Voltage Level 450/750 Volts

Number of Pairs (P) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Diameter Over Bedding (mm)	Diameter Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P 0.75	1.1	8	9.4	12.6	72	220
2P 0.75	1.1	12.2	13.6	17.4	100	374
4P 0.75	1.1	14.1	15.5	19.4	111	500
6P 0.75	1.1	16.8	18.2	22.4	128	637
8P 0.75	1.1	18.1	19.5	24.1	138	737
10P 0.75	1.1	19.6	21	25.7	147	808
12P 0.75	1.1	21.3	22.7	27.6	158	925
16P 0.75	1.1	23.5	24.9	30.1	172	1112
20P 0.75	1.1	24.6	26	31.3	179	1252
24P 0.75	1.1	26.3	27.7	33.3	190	1423
27P 0.75	1.1	27.6	29	34.7	198	1546
36P 0.75	1.1	31.6	33	39.2	224	1989

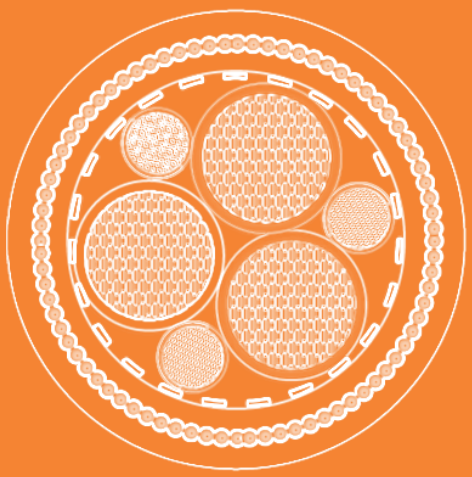
Flexible Rubber Individual & Collective Screened Braided/Amoured Instrumentation

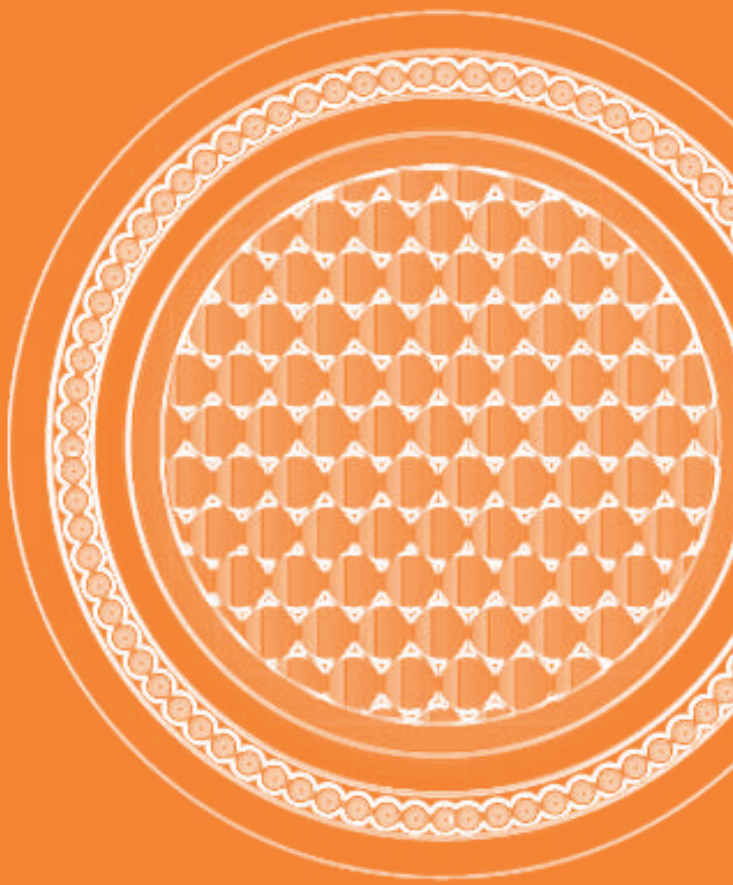
450/750V 110°C

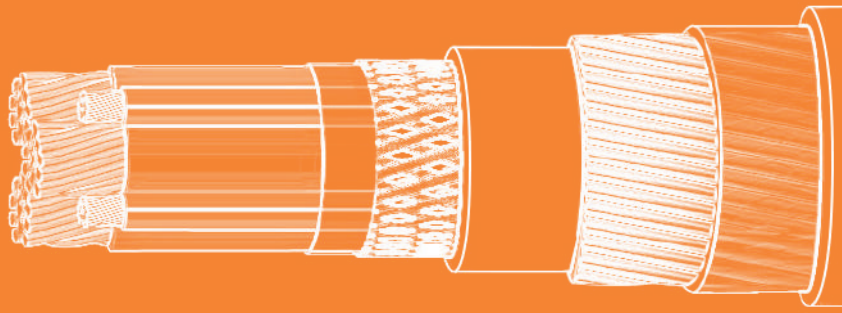
Number of Pairs (P) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter Over Bedding (mm)	Diameter Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P	1	1.3	8.3	9.7	12.9	74	234
2P	1	1.3	12.7	14.1	17.9	102	401
4P	1	1.3	14.7	16.1	20.2	116	563
6P	1	1.3	17.5	18.9	23.4	134	719
8P	1	1.3	19.0	20.4	25.0	143	822
10P	1	1.3	20.6	22.0	26.8	153	917
12P	1	1.3	22.3	23.7	28.7	164	1036
16P	1	1.3	24.6	26.0	31.3	179	1254
20P	1	1.3	25.8	27.2	32.8	187	1440
24P	1	1.3	27.5	28.9	34.6	198	1623
27P	1	1.3	29.4	30.8	36.7	210	1832
36P	1	1.3	33.1	34.5	40.8	233	2281
1P	1.5	1.5	8.9	10.3	13.7	78	265
2P	1.5	1.5	13.7	15.1	19.0	108	448
4P	1.5	1.5	15.9	17.3	21.5	123	649
6P	1.5	1.5	19.0	20.4	25.0	143	836
8P	1.5	1.5	20.6	22.0	26.9	154	979
10P	1.5	1.5	22.4	23.8	28.7	164	1076
12P	1.5	1.5	24.3	25.7	31.0	177	1240
16P	1.5	1.5	26.9	28.3	33.9	194	1512
20P	1.5	1.5	28.6	30.0	35.7	204	1770
24P	1.5	1.5	30.5	31.9	37.9	216	2025
27P	1.5	1.5	32.0	33.4	39.7	227	2233
36P	1.5	1.5	36.1	37.5	44.2	253	2798
1P	2.5	2.0	9.8	11.2	14.7	84	310
2P	2.5	2.0	15.2	16.6	20.8	119	548
4P	2.5	2.0	17.8	19.2	23.8	136	831
6P	2.5	2.0	21.4	22.8	27.8	159	1081
8P	2.5	2.0	23.2	24.6	29.9	171	1279
10P	2.5	2.0	25.3	26.7	32.0	183	1410
12P	2.5	2.0	27.5	28.9	34.5	197	1633
16P	2.5	2.0	30.8	32.2	38.2	218	2059
20P	2.5	2.0	32.3	33.7	40.0	229	2397
24P	2.5	2.0	34.5	35.9	42.5	243	2758
27P	2.5	2.0	36.3	37.7	44.4	254	3023
36P	2.5	2.0	41.4	42.8	50.2	287	3911

Number of Triads (T) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter Over Bedding (mm)	Diameter Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1T	0.75	1.1	8.3	9.7	12.8	73	231
3T	0.75	1.1	13.4	14.8	18.4	105	449
4T	0.75	1.1	14.6	16.0	19.8	113	517
7T	0.75	1.1	17.6	19.0	23.3	133	729
24T	0.75	1.1	32.7	34.1	40.4	231	1979
1T	1	1.3	8.7	10.1	13.1	75	248
3T	1	1.3	14.0	15.4	19.1	109	492
4T	1	1.3	15.3	16.7	20.7	118	582
7T	1	1.3	18.4	19.8	24.2	138	815
24T	1	1.3	34.3	35.7	42.1	241	2254
1T	1.5	1.5	9.3	10.7	13.7	79	277
3T	1.5	1.5	15.1	16.5	20.5	117	581
4T	1.5	1.5	16.6	18.0	22	126	680
7T	1.5	1.5	20.0	21.4	26.1	149	985
24T	1.5	1.5	37.5	38.9	45.9	262	2792
1T	2.5	2.0	10.3	11.7	15	86	340
3T	2.5	2.0	16.9	18.3	22.4	128	727
4T	2.5	2.0	18.6	20.0	24.4	139	878
7T	2.5	2.0	22.6	24.0	28.9	165	1307
24T	2.5	2.0	43.0	44.4	52.1	298	3901

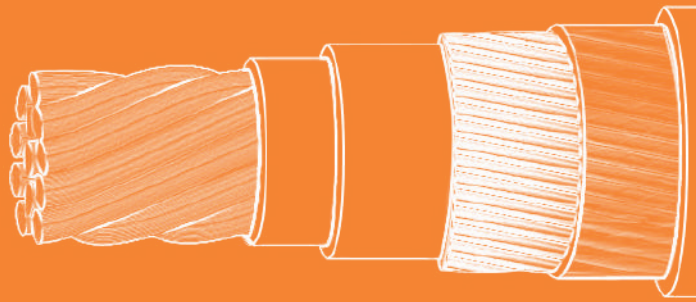
ARMOURED CABLES







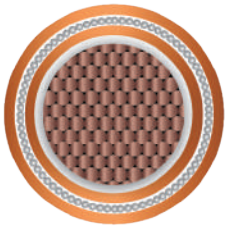
OCTEVE CABLES



OCTEVE CABLES

Flexible Rubber Aluminium Wire Armour SDI

0.6/1KV 90°C



AA
AWA

Applications

Flexible Steel Wire Armour Cable designed to add addition protection where mechanical stress can cause cable damage and can withstand higher pulling loads.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Bedding N-RUBBER, lead-free PVC thermoplastic, Flame Retardant

Armour Aluminium Wire Armour

Separator Polypropylene tape

Sheath HFFLEX TP-1110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

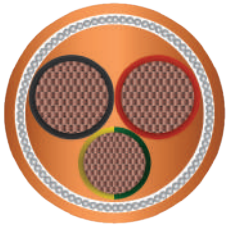
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
1C 6	3.0	4.6	9.5	13.7	137	236	46
1C 10	3.9	5.7	10.5	14.7	147	296	64
1C 16	4.9	6.8	11.5	15.7	157	368	85
1C 25	6.1	8.5	14.1	18.5	185	535	114
1C 35	7.3	9.9	15.6	19.9	199	658	141
1C 50	8.7	11.6	17.2	21.5	215	842	178
1C 70	10.4	13.4	19.9	24.4	244	1124	225
1C 95	12.1	15.5	21.9	26.4	264	1405	271
1C 120	13.6	17.5	24.0	28.7	287	1685	322
1C 150	15.5	19.7	26.5	31.3	313	2077	372
1C 185	17.0	21.9	28.6	33.7	337	2455	427
1C 240	19.6	24.4	32.1	37.5	375	3145	514
1C 300	22.0	27.5	34.7	40.5	405	3841	591
1C 400	25.5	31.0	39.1	45.4	454	4861	709
1C 500	28.9	34.7	44.0	50.6	506	6139	821
1C 630	33.0	38.8	48.3	55.5	555	7547	956

Flexible Rubber Steel Wire Armour Control

0.6/1KV 90°C



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SWA - CONTROL

Applications

Flexible Steel Wire Armour Cable designed to add addition protection where mechanical stress can cause cable damage and can withstand higher pulling loads.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.

Separator Polypropylene tape

Bedding N-RUBBER, lead-free PVC thermoplastic, Flame Retardant

Armour Steel Wire Armour

Separator Polypropylene tape

Sheath N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +90°C

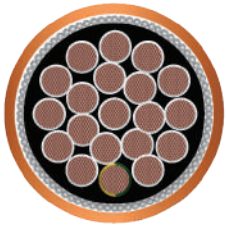
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
5C 1.5	1.5	14.8	18.8	188	618
6C 1.5	1.5	15.7	19.6	196	672
7C 1.5	1.5	15.7	19.6	196	689
8C 1.5	1.5	16.7	20.7	207	755
10C 1.5	1.5	20.1	24.0	240	1135
12C 1.5	1.5	20.1	24.0	240	1176
14C 1.5	1.5	20.7	24.6	246	1249
16C 1.5	1.5	20.7	24.6	246	1293
19C 1.5	1.5	21.4	25.3	253	1376
21C 1.5	1.5	21.4	25.3	253	1421
24C 1.5	1.5	22.3	26.3	263	1560
27C 1.5	1.5	23.3	27.2	272	1653
30C 1.5	1.5	24.3	28.4	284	1776
33C 1.5	1.5	26.0	30.3	303	1918
37C 1.5	1.5	26.6	30.9	309	2030
53C 1.5	1.5	27.4	31.6	316	2400
5C 2.5	2.0	16.4	20.4	204	736
6C 2.5	2.0	17.5	21.4	214	814
7C 2.5	2.0	17.5	21.4	214	841
10C 2.5	2.0	22.4	26.5	265	1382
12C 2.5	2.0	23.3	27.2	272	1477
14C 2.5	2.0	24.1	28.1	281	1575
16C 2.5	2.0	25.2	29.5	295	1714
19C 2.5	2.0	26.3	30.5	305	1843
21C 2.5	2.0	27.5	31.8	318	1974
24C 2.5	2.0	29.7	34.2	342	2217
27C 2.5	2.0	30.4	34.9	349	2339
30C 2.5	2.0	31.3	36.1	361	2483
33C 2.5	2.0	32.4	37.1	371	2613
37C 2.5	2.0	33.7	38.7	387	2830

Flexible Rubber Steel Wire Armour Multi-core

0.6/1KV 90°C



AA
SWA - MULTI

Applications

Flexible Steel Wire Armour Cable designed to add addition protection where mechanical stress can cause cable damage and can withstand higher pulling loads.

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Bedding	N-RUBBER, lead-free PVC thermoplastic, Flame Retardant
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

Insulation Color To customer specification

Standards IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp -40°C to +90°C

Voltage Level 600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Diameter Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
2C 1.5	1.5	10.4	14.7	147	348	24
2C 2.5	2.0	11.3	15.6	156	400	34
2C 4	2.6	13.3	17.8	178	585	45
2C 6	3.1	14.5	19.0	190	677	57
2C 10	4.4	17.1	21.7	217	879	78
2C 16	5.4	19.9	24.6	246	1257	104
2C 25	6.8	23.6	28.5	285	1608	140
2C 35	7.9	25.9	31.2	312	1947	173
2C 50	9.0	28.5	34.1	341	2380	211
2C 70	11.2	34.6	40.9	409	3413	268
2C 95	12.6	37.5	44.2	442	4116	331
2C 120	14.8	43.3	50.8	508	5494	385
2C 150	16.2	47.5	55.6	556	6587	441

AA
SWA - MULTI

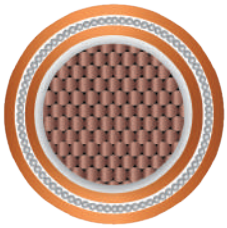
Flexible Rubber Steel Wire Armour Multi-core

0.6/1KV 90°C

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Diameter Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C 1.5	1.5	10.8	15.2	152	383	24
3C 2.5	2.0	11.8	16.2	162	448	34
3C 4	2.6	14.0	18.5	185	658	45
3C 6	3.1	15.2	19.8	198	773	57
3C 10	4.4	18.7	23.4	234	1154	78
3C 16	5.4	21.0	25.8	258	1494	104
3C 25	6.8	25.0	30.2	302	1948	140
3C 35	7.9	27.5	33.0	330	2400	173
3C 50	9.0	31.1	37.1	371	3232	211
3C 70	11.2	36.8	43.4	434	4255	268
3C 95	12.6	40.9	48.0	480	5632	331
3C 120	14.8	46.6	54.4	544	7010	385
3C 150	16.2	50.7	59.1	591	8381	441
4C 1.5	1.5	11.6	16.0	160	429	20
4C 2.5	2.0	13.6	18.1	181	627	28
4C 4	2.6	15.0	19.6	196	750	38
4C 6	3.1	16.5	21.1	211	892	48
4C 10	4.4	20.3	25.1	251	1344	66
4C 16	5.4	22.8	27.7	277	1771	88
4C 25	6.8	27.3	32.9	329	2344	119
4C 35	7.9	30.9	36.8	368	3162	147
4C 50	9.0	34.5	40.8	408	3990	180
4C 70	11.2	41.3	48.4	484	5625	229
4C 95	12.6	45.3	53.0	530	7001	283
4C 120	14.8	51.2	59.6	596	8648	330
4C 150	16.2	56.2	65.3	653	10488	377
4C 185	18.4	62.5	72.4	724	12549	436
4C 240	19.8	67.9	78.4	784	15681	517
5C 1.5	1.5	13.4	17.8	178	594	20
5C 2.5	2.0	14.6	19.1	191	701	28
5C 4	2.6	16.2	20.8	208	846	38
5C 6	3.1	17.8	22.4	224	1016	48
5C 10	4.4	21.9	26.8	268	1541	66
5C 16	5.4	24.8	30.0	300	2073	88
5C 25	6.8	30.6	36.5	365	3002	119
5C 35	7.9	34.1	40.4	404	3781	147
5C 50	9.0	37.6	44.3	443	4718	180
5C 70	11.2	45.6	53.3	533	6751	229
5C 95	12.6	49.6	57.7	577	8313	283
5C 120	14.8	56.5	65.6	656	10429	330
5C 150	16.2	61.6	71.4	714	12571	377
5C 185	18.4	70.0	80.9	809	16071	436
5C 240	19.8	75.0	86.3	863	18929	517

Flexible Rubber Aluminium Wire Armour SDI

0.6/1KV 110°C



AR
AWA

Applications

Flexible Aluminium Wire Armour Cable designed to prevent induced currents with the cable

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Bedding N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant

Armour Aluminium Wire Armour

Separator Polypropylene tape

Sheath N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +110°C

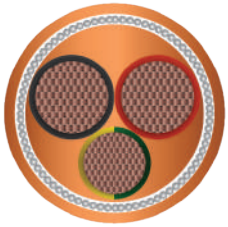
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
1C 6	3.0	4.646	9.494	13.668	136.68	236.34	57
1C 10	3.9	5.656	10.504	14.688	146.88	295.93	80
1C 16	4.9	6.767	11.514	15.708	157.08	367.64	105
1C 25	6.1	8.484	14.14	18.462	184.62	535.3	139
1C 35	7.3	9.898	15.554	19.89	198.9	657.51	172
1C 50	8.7	11.615	17.17	21.522	215.22	842.34	217
1C 70	10.4	13.433	19.897	24.378	243.78	1124.13	273
1C 95	12.1	15.453	21.917	26.418	264.18	1404.91	329
1C 120	13.6	17.473	24.038	28.662	286.62	1684.68	390
1C 150	15.5	19.695	26.462	31.314	313.14	2076.56	450
1C 185	17.0	21.917	28.583	33.66	336.6	2455.31	516
1C 240	19.6	24.442	32.118	37.536	375.36	3145.14	620
1C 300	22.0	27.472	34.744	40.494	404.94	3841.03	714
1C 400	25.5	31.007	39.087	45.39	453.9	4861.13	855
1C 500	28.9	34.744	44.036	50.592	505.92	6138.78	990
1C 630	33.0	38.784	48.278	55.488	554.88	7546.72	1154

Flexible Rubber Steel Wire Armour Control

0.6/1KV 110°C



AR

SWA - CONTROL

Applications

Flexible Steel Wire Armour Cable designed to add addition protection where mechanical stress can cause cable damage and can withstand higher pulling loads.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Bedding N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant

Armour Steel Wire Armour

Separator Polypropylene tape

Sheath N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +110°C

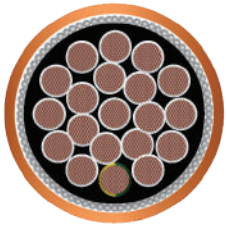
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
5C 1.5	1.5	14.8	18.8	188	618
6C 1.5	1.5	15.7	19.6	196	672
7C 1.5	1.5	15.7	19.6	196	689
8C 1.5	1.5	16.7	20.7	207	755
10C 1.5	1.5	20.1	24.0	240	1135
12C 1.5	1.5	20.1	24.0	240	1176
14C 1.5	1.5	20.7	24.6	246	1249
16C 1.5	1.5	20.7	24.6	246	1293
19C 1.5	1.5	21.4	25.3	253	1376
21C 1.5	1.5	21.4	25.3	253	1421
24C 1.5	1.5	22.3	26.3	263	1560
27C 1.5	1.5	23.3	27.2	272	1653
30C 1.5	1.5	24.3	28.4	284	1776
33C 1.5	1.5	26.0	30.3	303	1918
37C 1.5	1.5	26.6	30.9	309	2030
53C 1.5	1.5	27.4	31.6	316	2400
5C 2.5	2.0	16.4	20.4	204	736
6C 2.5	2.0	17.5	21.4	214	814
7C 2.5	2.0	17.5	21.4	214	841
10C 2.5	2.0	22.4	26.5	265	1382
12C 2.5	2.0	23.3	27.2	272	1477
14C 2.5	2.0	24.1	28.1	281	1575
16C 2.5	2.0	25.2	29.5	295	1714
19C 2.5	2.0	26.3	30.5	305	1843
21C 2.5	2.0	27.5	31.8	318	1974
24C 2.5	2.0	29.7	34.2	342	2217
27C 2.5	2.0	30.4	34.9	349	2339
30C 2.5	2.0	31.3	36.1	361	2483
33C 2.5	2.0	32.4	37.1	371	2613
37C 2.5	2.0	33.7	38.7	387	2830

Flexible Rubber Steel Wire Armour Multi-core

0.6/1KV 110°C



AR
SWA - MULTI

Applications

Flexible Steel Wire Armour Cable designed to add addition protection where mechanical stress can cause cable damage and can withstand higher pulling loads.

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Bedding	N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD FREE PVC THERMOPLASTIC, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Diameter Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
2C 1.5	1.5	10.4	14.7	147	348	29
2C 2.5	2.0	11.3	15.6	156	400	41
2C 4	2.6	13.3	17.8	178	585	55
2C 6	3.1	14.5	19.0	190	677	69
2C 10	4.4	17.1	21.7	217	879	95
2C 16	5.4	19.9	24.6	246	1257	126
2C 25	6.8	23.6	28.5	285	1608	168
2C 35	7.9	25.9	31.2	312	1947	206
2C 50	9.0	28.5	34.1	341	2380	251
2C 70	11.2	34.6	40.9	409	3413	317
2C 95	12.6	37.5	44.2	442	4116	392
2C 120	14.8	43.3	50.8	508	5494	455
2C 150	16.2	47.5	55.6	556	6587	519

AR
SWA - MULTI

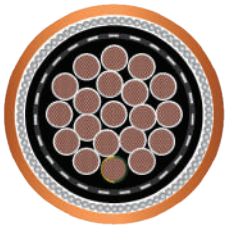
Flexible Rubber Steel Wire Armour Multi-core

0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C	1.5	1.5	10.8	15.2	152	383	29
3C	2.5	2.0	11.8	16.2	162	448	41
3C	4	2.6	14.0	18.5	185	658	55
3C	6	3.1	15.2	19.8	198	773	69
3C	10	4.4	18.7	23.4	234	1154	95
3C	16	5.4	21.0	25.8	258	1494	126
3C	25	6.8	25.0	30.2	302	1948	168
3C	35	7.9	27.5	33.0	330	2400	206
3C	50	9.0	31.1	37.1	371	3232	251
3C	70	11.2	36.8	43.4	434	4255	317
3C	95	12.6	40.9	48.0	480	5632	392
3C	120	14.8	46.6	54.4	544	7010	455
3C	150	16.2	50.7	59.1	591	8381	519
4C	1.5	1.5	11.6	16.0	160	429	25
4C	2.5	2.0	13.6	18.1	181	627	35
4C	4	2.6	15.0	19.6	196	750	47
4C	6	3.1	16.5	21.1	211	892	59
4C	10	4.4	20.3	25.1	251	1344	81
4C	16	5.4	22.8	27.7	277	1771	107
4C	25	6.8	27.3	32.9	329	2344	144
4C	35	7.9	30.9	36.8	368	3162	177
4C	50	9.0	34.5	40.8	408	3990	216
4C	70	11.2	41.3	48.4	484	5625	272
4C	95	12.6	45.3	53.0	530	7001	337
4C	120	14.8	51.2	59.6	596	8648	391
4C	150	16.2	56.2	65.3	653	10488	447
4C	185	18.4	62.5	72.4	724	12549	515
4C	240	19.8	67.9	78.4	784	15681	611
5C	1.5	1.5	13.4	17.8	178	594	25
5C	2.5	2.0	14.6	19.1	191	701	35
5C	4	2.6	16.2	20.8	208	846	47
5C	6	3.1	17.8	22.4	224	1016	59
5C	10	4.4	21.9	26.8	268	1541	81
5C	16	5.4	24.8	30.0	300	2073	107
5C	25	6.8	30.6	36.5	365	3002	144
5C	35	7.9	34.1	40.4	404	3781	177
5C	50	9.0	37.6	44.3	443	4718	216
5C	70	11.2	45.6	53.3	533	6751	272
5C	95	12.6	49.6	57.7	577	8313	337
5C	120	14.8	56.5	65.6	656	10429	391
5C	150	16.2	61.6	71.4	714	12571	447
5C	185	18.4	70.0	80.9	809	16071	515
5C	240	19.8	75.0	86.3	863	18929	611

Flexible Rubber Steel Wire Armour Collective Screend & Braided EMC

0.6/1KV 90°C



AO
SWA - MULTI

Applications

Flexible Power and Control Cable that is used in environments that require mechanical or EMC protection as well as mechanical protection.

Design Construction

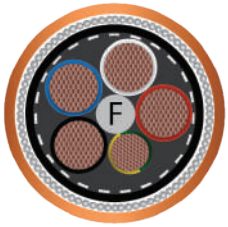
Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Overall Screen	Aluminium/Laminate tape
Braid	Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.
Bedding	N-RUBBER, lead-free PVC thermoplastic, Flame Retardant
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

- **Insulation Color** To customer specification
- **Standards** IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZ 3008.1
- **Operating Temp** -40°C to +90°C
- **Voltage Level** 600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
3C 1.5 + 1.5E	1.5	15.7	19.5	195	751	19
3C 2.5 + 2.5E	2.0	17.1	21.0	210	870	26
3C 4 + 4E	2.6	18.1	22.0	220	979	34
3C 6 + 6E	3.1	21.1	25.1	251	1431	43
3C 10 + 4E	4.4	22.5	26.5	265	1630	61
3C 16 + 6E	5.4	24.7	29.0	290	2022	81
3C 25 + 6E	6.8	28.7	32.8	328	2562	108
3C 35 + 10E	7.9	31.8	36.8	368	3190	135
3C 50 + 16E	9.0	35.7	41.0	410	4017	170
3C 70 + 25E	11.2	40.2	46.1	461	5132	214
3C 95 + 25E	12.6	46.0	52.4	524	6809	256
3C 120 + 35E	14.8	50.7	57.5	575	8095	303
3C 150 + 50E	16.2	56.0	63.3	633	9813	348
3C 185 + 70E	18.4	61.2	69.2	692	11654	396
3C 240 + 95E	19.8	68.6	77.4	774	15185	472
4C 1.5 + 1.5E	1.5	16.6	20.4	204	804	19
4C 2.5 + 2.5E	2.0	18.2	22.1	221	945	26
4C 4 + 4E	2.6	20.8	24.9	249	1384	34
4C 6 + 6E	3.1	22.5	26.5	265	1586	43
4C 10 + 4E	4.4	24.1	28.3	283	1853	61
4C 16 + 6E	5.4	26.7	31.1	311	2299	81
4C 25 + 6E	6.8	31.1	36.1	361	2996	108
4C 35 + 10E	7.9	34.9	40.2	402	3713	135
4C 50 + 16E	9.0	39.3	44.9	449	4718	170
4C 70 + 25E	11.2	45.3	51.8	518	6549	214
4C 95 + 25E	12.6	50.9	57.7	577	8082	256
4C 120 + 35E	14.8	56.0	63.3	633	9653	303
4C 150 + 50E	16.2	62.1	70.1	701	11820	348
4C 185 + 70E	18.4	69.3	78.1	781	14911	396

Flexible Rubber Steel Wire Armour Collective Screend & Braided EMC

0.6/1KV 90°C



AO

SWA - CONTROL

Applications

Flexible Power and Control Cable that is used in environments that require mechanical or EMC protection as well as mechanical protection.

Design Construction

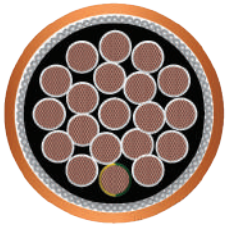
Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-90 Crosslinked Polyethylene with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Overall Screen	Aluminium/Laminate tape
Braid	Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.
Bedding	N-RUBBER, lead-free PVC thermoplastic, Flame Retardant
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER, LEAD-FREE PVC THERMOPLASTIC, Flame Retardant, Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water. Submersible to 500m.

- **Insulation Color** To customer specification
- **Standards** IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808
- **Operating Temp** -40°C to +90°C
- **Voltage Level** 600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Braid (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
6C 1.5	1.5	10.1	17.2	21.3	213	986
7C 1.5	1.5	10.1	17.2	21.3	213	1004
10C 1.5	1.5	12.928	21.5	25.7	257	1615
12C 1.5	1.5	13.534	22.1	26.3	263	1711
14C 1.5	1.5	14.241	22.8	27.1	271	1816
16C 1.5	1.5	15.15	23.7	28.0	280	1930
19C 1.5	1.5	16.059	24.6	28.9	289	2064
21C 1.5	1.5	17.069	25.7	29.7	297	2219
24C 1.5	1.5	18.887	27.4	31.7	317	2468
27C 1.5	1.5	19.493	28.0	32.3	323	2562
30C 1.5	1.5	20.2	28.8	33.1	331	2721
33C 1.5	1.5	21.109	29.7	34.0	340	2864
37C 1.5	1.5	22.422	32.6	37.6	376	3741
6C 2.5	2.0	11.918	20.5	24.4	244	1497
7C 2.5	2.0	11.918	20.5	24.4	244	1524
10C 2.5	2.0	15.352	23.8	28.2	282	1934
12C 2.5	2.0	16.059	24.6	28.9	289	2060
14C 2.5	2.0	16.968	25.5	29.8	298	2225
16C 2.5	2.0	17.978	26.6	30.9	309	2377
19C 2.5	2.0	19.089	27.7	31.9	319	2585
21C 2.5	2.0	20.301	28.9	33.2	332	2780
24C 2.5	2.0	22.523	31.0	36.1	361	3145
27C 2.5	2.0	23.23	31.7	36.8	368	3310
30C 2.5	2.0	24.038	32.6	37.7	377	4581
33C 2.5	2.0	25.149	33.9	39.2	392	3752
37C 2.5	2.0	26.26	34.9	40.3	403	4007

Flexible LSHF Rubber Steel Wire Armour Multi-core

0.6/1KV 110°C



AL
SWA - MULTI

Applications

Flexible Steel Wire Armour Cable designed to add addition protection where mechanical stress can cause cable damage and can withstand higher pulling loads.

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Bedding	HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free.
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color To customer specification

Standards IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808

Operating Temp -40°C to +110°C

Voltage Level 600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Diameter Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
2C 1.5	1.5	10.4	14.7	147	348	29
2C 2.5	2.0	11.3	15.6	156	400	41
2C 4	2.6	13.3	17.8	178	585	55
2C 6	3.1	14.5	19.0	190	677	69
2C 10	4.4	17.1	21.7	217	879	95
2C 16	5.4	19.9	24.6	246	1257	126
2C 25	6.8	23.6	28.5	285	1608	168
2C 35	7.9	25.9	31.2	312	1947	206
2C 50	9.0	28.5	34.1	341	2380	251
2C 70	11.2	34.6	40.9	409	3413	317
2C 95	12.6	37.5	44.2	442	4116	392
2C 120	14.8	43.3	50.8	508	5494	455
2C 150	16.2	47.5	55.6	556	6587	519

AL
SWA - MULTI

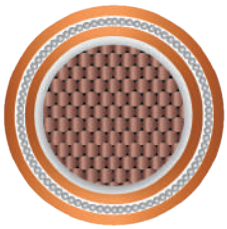
Flexible LSHF Rubber Steel Wire Armour Multi-core

0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
3C	1.5	1.5	10.8	15.2	152	383	29
3C	2.5	2.0	11.8	16.2	162	448	41
3C	4	2.6	14.0	18.5	185	658	55
3C	6	3.1	15.2	19.8	198	773	69
3C	10	4.4	18.7	23.4	234	1154	95
3C	16	5.4	21.0	25.8	258	1494	126
3C	25	6.8	25.0	30.2	302	1948	168
3C	35	7.9	27.5	33.0	330	2400	206
3C	50	9.0	31.1	37.1	371	3232	251
3C	70	11.2	36.8	43.4	434	4255	317
3C	95	12.6	40.9	48.0	480	5632	392
3C	120	14.8	46.6	54.4	544	7010	455
3C	150	16.2	50.7	59.1	591	8381	519
4C	1.5	1.5	11.6	16.0	160	429	25
4C	2.5	2.0	13.6	18.1	181	627	35
4C	4	2.6	15.0	19.6	196	750	47
4C	6	3.1	16.5	21.1	211	892	59
4C	10	4.4	20.3	25.1	251	1344	81
4C	16	5.4	22.8	27.7	277	1771	107
4C	25	6.8	27.3	32.9	329	2344	144
4C	35	7.9	30.9	36.8	368	3162	177
4C	50	9.0	34.5	40.8	408	3990	216
4C	70	11.2	41.3	48.4	484	5625	272
4C	95	12.6	45.3	53.0	530	7001	337
4C	120	14.8	51.2	59.6	596	8648	391
4C	150	16.2	56.2	65.3	653	10488	447
4C	185	18.4	62.5	72.4	724	12549	515
4C	240	19.8	67.9	78.4	784	15681	611
5C	1.5	1.5	13.4	17.8	178	594	25
5C	2.5	2.0	14.6	19.1	191	701	35
5C	4	2.6	16.2	20.8	208	846	47
5C	6	3.1	17.8	22.4	224	1016	59
5C	10	4.4	21.9	26.8	268	1541	81
5C	16	5.4	24.8	30.0	300	2073	107
5C	25	6.8	30.6	36.5	365	3002	144
5C	35	7.9	34.1	40.4	404	3781	177
5C	50	9.0	37.6	44.3	443	4718	216
5C	70	11.2	45.6	53.3	533	6751	272
5C	95	12.6	49.6	57.7	577	8313	337
5C	120	14.8	56.5	65.6	656	10429	391
5C	150	16.2	61.6	71.4	714	12571	447
5C	185	18.4	70.0	80.9	809	16071	515
5C	240	19.8	75.0	86.3	863	18929	611

Flexible LSHF Rubber Aluminium Wire Armour SDI

0.6/1KV 110°C



AL
AWA

Applications

Flexible Aluminium Wire Armour Cable designed to prevent induced currents with the cable

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Bedding HFFLEX TP-110 Flame Retardant, Low Smoke Halogen Free.

Armour Aluminium Wire Armour

Separator Polypropylene tape

Sheath HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

Operating Temp

-40°C to +110°C

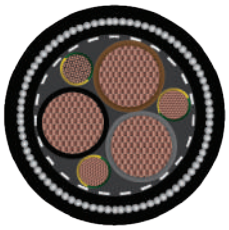
Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
1C 6	3.0	4.646	9.494	13.668	136.68	236.34	57
1C 10	3.9	5.656	10.504	14.688	146.88	295.93	80
1C 16	4.9	6.767	11.514	15.708	157.08	367.64	105
1C 25	6.1	8.484	14.14	18.462	184.62	535.3	139
1C 35	7.3	9.898	15.554	19.89	198.9	657.51	172
1C 50	8.7	11.615	17.17	21.522	215.22	842.34	217
1C 70	10.4	13.433	19.897	24.378	243.78	1124.13	273
1C 95	12.1	15.453	21.917	26.418	264.18	1404.91	329
1C 120	13.6	17.473	24.038	28.662	286.62	1684.68	390
1C 150	15.5	19.695	26.462	31.314	313.14	2076.56	450
1C 185	17.0	21.917	28.583	33.66	336.6	2455.31	516
1C 240	19.6	24.442	32.118	37.536	375.36	3145.14	620
1C 300	22.0	27.472	34.744	40.494	404.94	3841.03	714
1C 400	25.5	31.007	39.087	45.39	453.9	4861.13	855
1C 500	28.9	34.744	44.036	50.592	505.92	6138.78	990
1C 630	33.0	38.784	48.278	55.488	554.88	7546.72	1154

Flexible Rubber Steel Wire Armour Collective Screend & Braided VSD/VFD

0.6/1KV 90°C



AV

Applications

The VSD cable with steel wire armor designed to protect variable speed drive and variable frequency drive input and motor power wiring. Also helps reduce signalling interference

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Separator	Polypropylene tape
Overall Screen	Aluminium/Laminate tape
Braid	Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.
Bedding	N-RUBBER, lead-free PVC thermoplastic, Flame Retardant
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

- **Insulation Color** To customer specification
- **Standards** IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZ 3008.1
- **Operating Temp** -40°C to +90°C
- **Voltage Level** 600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
3C 1.5 + 1.5E	1.5	13.0	16.0	20.1	201	770	24
3C 2.5 + 2.5E	2.0	14.5	17.5	21.5	215	900	32
3C 4 + 4E	2.6	15.5	19.9	24.1	241	1292	42
3C 6 + 6E	3.1	17.0	21.4	25.6	256	1498	54
3C 10 + 3C 1.5E	4.4	18.6	23.0	27.3	273	1586	75
3C 16 + 3C 2.5E	5.4	19.5	23.9	28.2	282	1822	99
3C 25 + 3C 4E	6.8	23.0	27.5	31.8	318	2367	131
3C 35 + 3C 6E	7.9	26.0	30.4	34.8	348	2872	162
3C 50 + 3C 10E	9.0	29.5	33.9	39.2	392	3730	204
3C 70 + 3C 10E	11.2	33.5	38.0	43.5	435	4553	255
3C 95 + 3C 16E	12.6	38.2	43.6	49.8	498	6232	306
3C 120 + 3C 16E	14.8	42.4	47.9	54.5	545	7283	360
3C 150 + 3C 25E	16.2	47.6	53.0	60.0	600	8912	413
3C 185 + 3C 25E	18.4	52.2	57.7	65.1	651	10305	470
3C 240 +3C 35E	19.8	58.0	63.4	71.4	714	12613	559

Flexible Rubber Collective Screened SWA Instrumentation

450/750V 110°C

AI

Applications

Flexible overall screened steel wire armored instrumentation cable designed to communication, data transmission signal with mechanical protections

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Screen	Aluminium/Laminate tape
Drain Wire	Tinned Annealed Copper
Separator	Polypropylene tape
Bedding	N-RUBBER, lead-free PVC thermoplastic, Flame Retardant
Braid	Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

- **Insulation Color** To customer specification
- **Operating Temp** -40°C to +110°C
- **Voltage Level** 450/750 Volts
- **Standards** IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808

Number of Pairs (P) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Diameter OD Over Bedding (mm)	Diameter OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P 0.75	1.2	8.7	11.6	14.6	146	482
2P 0.75*	1.2	9.5	12.5	15.6	156	505
4P 0.75	1.2	13.9	17.2	20.7	207	678
6P 0.75	1.2	15.7	20.7	24.4	244	1106
8P 0.75	1.2	17.8	22.7	26.8	268	1296
10P 0.75	1.2	19.1	24.3	28.6	286	1433
12P 0.75	1.2	20.9	26.0	30.3	303	1604
14P 0.75	1.2	21.9	27.3	31.8	318	1692
16P 0.75	1.2	22.8	28.2	32.7	327	1804
20P 0.75	1.2	24.0	29.3	34.0	340	1988
24P 0.75	1.2	25.6	31.0	35.9	359	2172
27P 0.75	1.2	27.0	32.3	37.4	374	2349
36P 0.75	1.2	30.4	36.1	41.4	414	2790

AI

Flexible Rubber Collective Screened SWA Instrumentation

450/750V 110°C

Number of Pairs (P) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter OD Over Bedding (mm)	Diameter OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P	1	1.3	9.6	11.8	14.8	148	494
2P	1*	1.3	10.8	13.0	16.0	160	531
4P	1	1.3	16.2	17.9	21.4	214	864
8P	1	1.3	20.6	23.3	27.4	274	1387
10P	1	1.3	22.2	24.9	29.3	293	1514
12P	1	1.3	24.2	26.9	31.4	314	1694
16P	1	1.3	26.8	29.0	33.5	335	1936
20P	1	1.3	28.1	30.3	35.1	351	2114
24P	1	1.3	30.0	31.9	37.0	370	2352
27P	1	1.3	31.4	33.4	38.6	386	2526
36P	1	1.3	35.5	37.2	42.7	427	3016
1P	1.5	1.5	10.0	12.4	15.5	155	525
2P	1.5*	1.5	11.3	13.7	16.8	168	572
4P	1.5	1.5	17.3	20.9	24.6	246	1115
8P	1.5	1.5	21.8	25.3	29.5	295	1507
10P	1.5	1.5	23.7	27.1	31.6	316	1704
12P	1.5	1.5	25.8	29.0	33.5	335	1885
16P	1.5	1.5	28.4	31.5	36.4	364	2196
20P	1.5	1.5	30.0	33.0	38.1	381	2441
24P	1.5	1.5	31.8	34.7	40.1	401	2686
27P	1.5	1.5	33.8	36.5	41.8	418	2911
36P	1.5	1.5	37.9	41.5	47.4	474	3910
1P	2.5	2.0	11.5	13.8	16.9	169	623
2P	2.5*	2.0	12.9	15.2	18.5	185	696
4P	2.5	2.0	20.2	23.6	27.7	277	1356
8P	2.5	2.0	25.7	28.9	33.5	335	1903
10P	2.5	2.0	28.0	31.1	35.9	359	2150
12P	2.5	2.0	30.6	33.5	38.6	386	2432
16P	2.5	2.0	33.7	36.6	41.9	419	2841
20P	2.5	2.0	35.4	38.1	43.7	437	3166
24P	2.5	2.0	37.8	41.5	47.4	474	3962
27P	2.5	2.0	39.9	43.4	49.6	496	4326
36P	2.5	2.0	45.0	48.3	54.9	549	5196

Number of Triads (T) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Diameter OD Over Bedding (mm)	Diameter OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1T	0.75	1.2	9.0	11.5	14.4	144	462
3T	0.75	1.2	13.1	15.5	18.7	187	670
4T	0.75	1.2	14.5	16.8	20.2	202	695
7T	0.75	1.2	17.4	21.0	24.8	248	1221
1T	1.5	1.5	10.7	13.1	16.1	161	505
3T	1.5	1.5	16.1	19.8	23.5	235	1087
4T	1.5	1.5	17.7	21.3	25.1	251	1249
7T	1.5	1.5	21.4	24.8	29.1	291	1630

Flexible Rubber Individual & Collective Screened SWA Instrumentation

450/750V 110°C

AC

Applications

Flexible individual screened steel wire armored instrumentation cable designed for communication, data transmission signal with mechanical protections. The individual screens add protection against outer interference fields.

Design Construction

Conductors	Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.
Screen	Aluminium/Laminate tape
Separator	Polypropylene tape
Bedding	N-RUBBER, lead-free PVC thermoplastic, Flame Retardant
Armour	Steel Wire Armour
Separator	Polypropylene tape
Sheath	N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color To customer specification

Standards IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.3, AS/NZS 3808

Operating Temp -40°C to +110°C

Voltage Level 450/750 Volts

Number of Pairs (P) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P 0.75	1.2	8.7	11.6	14.8	148	477
2P 0.75	1.2	13.4	16.4	20.1	201	701
3P 0.75	1.2	14.7	17.7	21.4	214	791
4P 0.75	1.2	16.1	20.5	24.5	245	1086
5P 0.75	1.2	17.4	21.8	26.1	261	1206
8P 0.75	1.2	20.6	25.0	29.6	296	1498
10P 0.75	1.2	22.5	27.0	31.4	314	1665
12P 0.75	1.2	24.3	28.8	33.5	335	1860
14P 0.75	1.2	25.8	30.2	35.0	350	1996
16P 0.75	1.2	26.9	31.3	36.4	364	2129
20P 0.75	1.2	28.4	32.8	37.8	378	2352
24P 0.75	1.2	30.1	34.5	39.9	399	2587
27P 0.75	1.2	31.8	36.3	41.8	418	2805
36P 0.75	1.2	36.1	41.5	47.4	474	3755

AC

Flexible Rubber Individual & Collective Screened SWA Instrumentation

450/750V 110°C

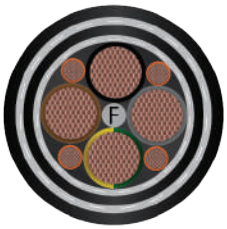
Number of Pairs (P) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1P	1.0	1.3	8.9	11.8	15.0	150	502
2P	1.0	1.3	13.8	16.8	20.4	204	740
4P	1.0	1.3	16.5	20.9	24.9	249	1167
8P	1.0	1.3	21.2	25.7	30.1	301	1612
10P	1.0	1.3	23.1	27.6	32.3	323	1824
12P	1.0	1.3	25.3	29.7	34.4	344	2017
16P	1.0	1.3	27.9	32.3	37.4	374	2352
20P	1.0	1.3	29.2	33.6	39.0	390	2615
24P	1.0	1.3	31.2	35.7	41.0	410	2888
27P	1.0	1.3	32.7	37.2	42.7	427	3121
36P	1.0	1.3	37.2	42.6	48.7	487	4224
1P	1.5	1.5	9.3	12.2	15.5	155	538
2P	1.5	1.5	14.6	17.6	21.3	213	807
3P	1.5	1.5	15.9	20.3	24.3	243	1235
4P	1.5	1.5	17.3	21.7	25.9	259	1263
5P	1.5	1.5	18.5	22.9	27.2	272	1385
8P	1.5	1.5	22.5	27.0	31.5	315	1791
10P	1.5	1.5	24.3	28.8	33.6	336	2017
12P	1.5	1.5	26.6	31.0	36.1	361	2263
16P	1.5	1.5	29.4	33.8	39.2	392	2652
20P	1.5	1.5	31.0	35.5	40.8	408	2935
24P	1.5	1.5	33.1	37.6	43.1	431	3317
27P	1.5	1.5	34.8	39.3	45.0	450	3591
36P	1.5	1.5	39.5	44.9	51.3	513	4815
1P	2.5	2.0	10.5	13.4	16.9	169	633
2P	2.5	2.0	17.0	21.4	25.4	254	1314
4P	2.5	2.0	20.3	24.7	29.2	292	1560
8P	2.5	2.0	26.2	30.6	35.7	357	2219
10P	2.5	2.0	28.6	33.0	38.1	381	2529
12P	2.5	2.0	31.2	35.7	41.0	410	2849
16P	2.5	2.0	34.4	38.9	44.5	445	3392
20P	2.5	2.0	36.4	41.8	47.6	476	4231
24P	2.5	2.0	38.9	44.3	50.5	505	4744
27P	2.5	2.0	40.8	46.3	52.6	526	5135
36P	2.5	2.0	46.3	51.7	58.6	586	6247

Number of Triads (T) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Armour (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1T	0.75	1.2	9.1	12.0	15.0	150	165
3T	0.75	1.2	15.0	18.0	21.4	214	282
4T	0.75	1.2	16.4	20.8	24.6	246	359
7T	0.75	1.2	20.0	24.4	28.8	288	546
1T	1.5	1.5	9.8	12.7	15.7	157	197
3T	1.5	1.5	16.3	20.7	24.4	244	387
4T	1.5	1.5	18.0	22.4	26.5	265	481
7T	1.5	1.5	21.7	26.2	30.5	305	731
12T	1.5	1.5	33.7	38.2	43.7	437	1280

SUBMERSIBLE

Flexible LSHF Rubber Braided Submersible Pump with Pilots

0.6/1KV 110°C



SM

• Applications

Flexible submersible cable designed to connect electrical motor equipments in potable water. Suitable for depth of 1000 meters

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Bedding N-RUBBER, lead-free PVC thermoplastic, Flame Retardant

Braid Tinned Copper Wire Braid or Galvanized Steel Wire Braid with 90% coverage.

Separator Polypropylene tape

Sheath N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant,Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1

• Operating Temp

-40°C to +110°C

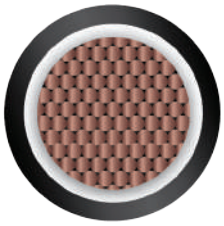
• Voltage Level

450/750 Volts

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Number of Pilots (P) & Cross Section Area (mm²)		Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
4C	2.5	2.0	2C	1.5	13.2	13.6	19.6	118	395	32
4C	4	2.6	2C	1.5	14.6	15.0	21.4	128	495	42
4C	6	3.1	2C	1.5	16.5	16.9	23.9	144	630	54
4C	10	4.4	4C	1.5	17.7	18.1	26.8	161	911	75
4C	16	5.4	4C	1.5	19.7	20.1	29.3	176	1191	99
4C	25	6.8	4C	1.5	22.9	23.3	33.3	200	1676	131
4C	35	7.9	4C	1.5	26.4	26.8	37.8	227	2199	162
4C	50	9.0	4C	1.5	30.3	30.7	42.6	256	2982	204
4C	70	11.2	4C	1.5	35.0	35.5	48.4	290	3943	255
4C	95	12.6	4C	1.5	40.0	40.4	54.6	328	5171	306
4C	120	14.8	4C	1.5	44.9	45.3	60.9	365	6383	360
4C	150	16.2	4C	1.5	50.4	50.8	67.7	406	7993	413
4C	185	18.4	4C	1.5	55.9	56.3	74.4	447	9655	470
5C	2.5	2.0	-	-	12.1	12.5	18.3	110	373	32
5C	4	2.6	-	-	13.2	13.6	19.6	118	471	42
5C	6	3.1	-	-	15.0	15.5	22.0	132	623	54
5C	10	4.4	5C	1.5	18.9	19.3	28.2	169	965	75
5C	16	5.4	5C	1.5	21.8	22.2	32.1	193	1347	99
5C	25	6.8	5C	1.5	25.7	26.1	36.8	221	1942	131
5C	35	7.9	5C	1.5	29.5	29.9	41.6	250	2580	162
5C	50	9.0	5C	1.5	34.1	34.5	47.3	284	3565	204
5C	70	11.2	5C	1.5	39.2	39.6	53.7	322	4742	255
5C	95	12.6	5C	1.5	44.9	45.3	60.9	365	6285	306
5C	120	14.8	5C	1.5	50.3	50.7	67.6	405	7748	360
5C	150	16.2	5C	1.5	56.6	57.0	75.5	453	9766	413
5C	185	18.4	5C	1.5	62.6	63.0	82.9	498	11800	470

Flexible LSHF Rubber Submersible SDI

0.6/1KV 110°C



SS
SDI

Applications

Flexible Submersible Pump power cable that is appropriate for applications involving underwater Submersible Pumps and electrical equipments in industrial water

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 50754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3808.1

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

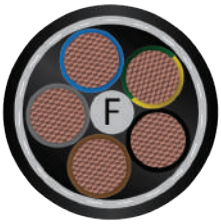
Water Depth

Tested to 1000 meters

Number of Conductors (C) & Cross Section Area (mm²)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.8	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.1	20.4	25.0	95	1849	553
1C 240	19.5	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

Flexible LSHF Rubber Submersible Pump Multi-core

0.6/1KV 110°C



SS
MULTI

Applications

Pumps and Electric motors.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant,Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60754-2,
IEC 61034-1&2,
AS/NZS 1125, AS/NZS 5000.1,
AS/NZS 3808, AS/NZS 3808.1

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Water Depth

Tested to 1000 meters

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Ambient: 40°C in Air (Amps)
2C 1.5	1.5	9.6	37	107	30
2C 2.5	2.0	11.0	42	148	40
2C 4	2.4	12.0	46	186	53
2C 6	3.0	13.4	51	242	67
2C 10	3.9	17.7	67	443	94
2C 16	4.9	20.2	77	608	124
2C 25	6.1	24.4	93	887	163
2C 35	7.3	27.4	104	1161	202
2C 50	8.8	31.9	122	1601	254
2C 70	10.4	36.4	139	2125	318
2C 95	12.1	40.8	155	2725	381
2C 120	13.6	45.3	172	3383	450
2C 150	15.5	51.2	195	4318	515

SS
MULTI

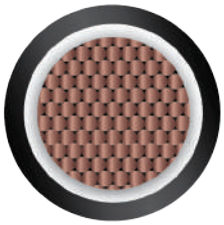
Flexible LSHF Rubber Submersible Pump Multi-core

0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Ambient: 40°C in Air (Amps)
3C	1.5	1.5	10.3	39	136	30
3C	2.5	2.0	11.5	44	182	40
3C	4	2.4	12.7	48	232	53
3C	6	3.0	14.4	55	316	67
3C	10	3.9	18.8	72	566	94
3C	16	4.9	21.5	82	788	124
3C	25	6.1	26.0	99	1157	163
3C	35	7.3	29.4	112	1550	202
3C	50	8.8	34.1	130	2149	254
3C	70	10.4	39.0	149	2864	318
3C	95	12.1	43.6	166	3687	381
3C	120	13.6	48.4	184	4587	450
3C	150	15.5	55.0	209	5896	515
3C	185	17.1	60.5	231	7111	586
3C	240	19.5	67.5	257	8916	698
3C	300	22.0	75.0	286	11115	799
4C	1.5	1.5	11.3	43	168	26
4C	2.5	2.0	12.7	48	227	34
4C	4	2.4	14.2	54	300	45
4C	6	3.0	15.8	60	398	57
4C	10	3.9	20.5	78	700	80
4C	16	4.9	23.7	90	998	106
4C	25	6.1	28.5	109	1466	140
4C	35	7.3	32.5	124	1988	173
4C	50	8.8	37.8	144	2757	218
4C	70	10.4	43.3	165	3702	273
4C	95	12.1	48.3	184	4765	327
4C	120	13.6	53.8	205	5956	387
4C	150	15.5	61.0	232	7642	444
4C	185	17.1	67.4	257	9242	505
4C	240	19.5	75.0	286	11575	602
4C	300	22.0	83.7	319	14514	688
5C	1.5	1.5	12.4	47	203	26
5C	2.5	2.0	14.1	54	283	34
5C	4	2.4	15.5	59	362	45
5C	6	3.0	17.5	67	492	57
5C	10	3.9	22.5	86	852	80
5C	16	4.9	25.9	99	1215	106
5C	25	6.1	31.5	120	1804	140
5C	35	7.3	35.6	136	2422	173
5C	50	8.8	41.8	159	3410	218
5C	70	10.4	47.8	182	4570	273
5C	95	12.1	53.6	204	5909	327
5C	120	13.6	59.6	227	7373	387
5C	150	15.5	67.7	258	9482	444
5C	185	17.1	74.6	284	11446	505
5C	240	19.5	83.2	317	14364	602
5C	300	22.0	92.7	353	17978	688

Flexible LSHF Rubber Submersible (Potable Water) SDI

0.6/1KV 110°C



SW

Applications

Flexible submersible cable designed to connect electrical motor equipments in potable water. Suitable for depth of 1000 meters

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Bedding Available on request.

Braid Available on request.

Sheath HFFLEX E-110-R, Cross Linked, Thermoset, Elastomeric, LSHF

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZ 3008.1, AS/NZS 4020

Operating Temp

-40°C to +110°C

Voltage Level

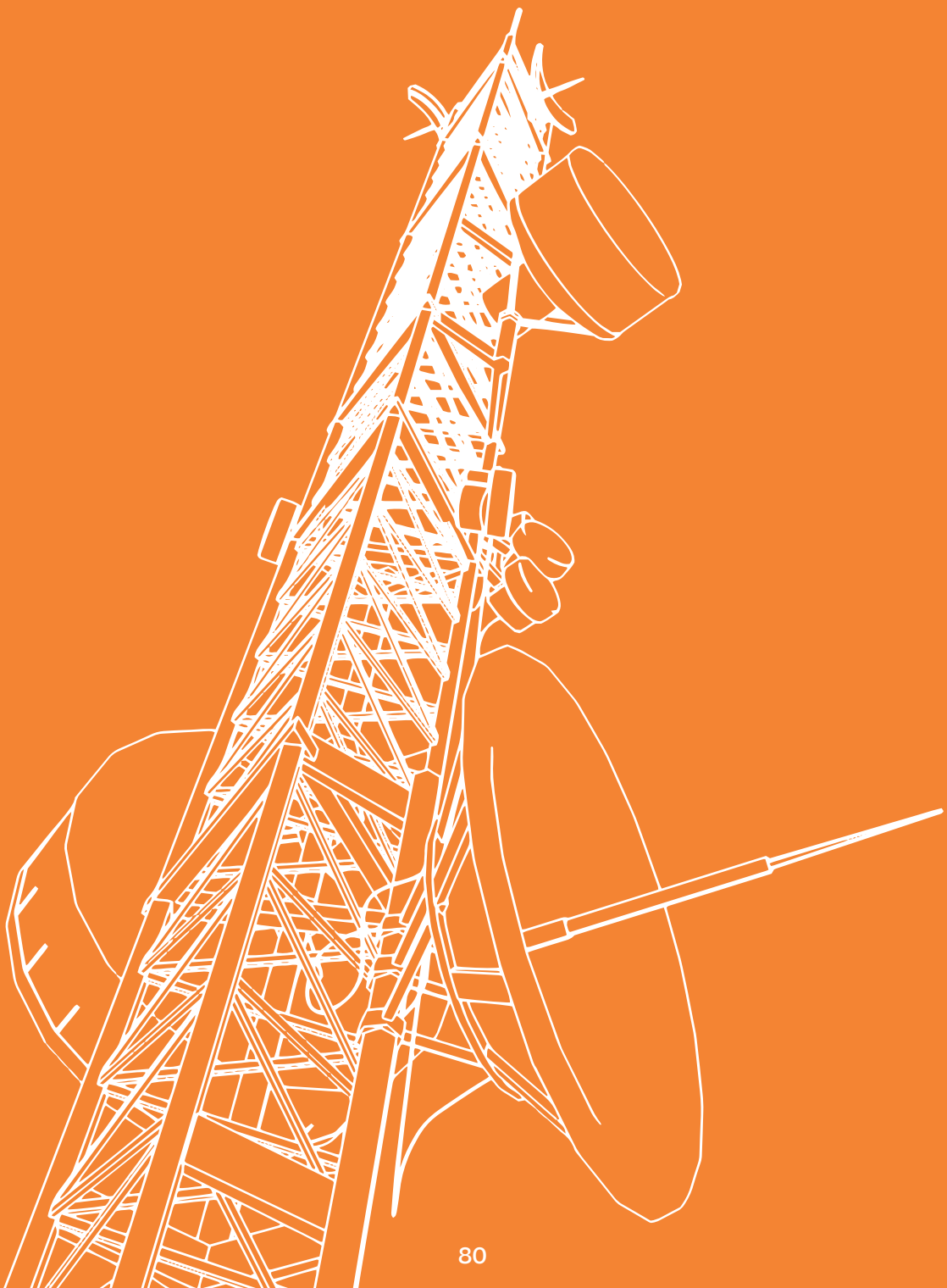
450/750 Volts

Water Depth

Tested to 1000 meters

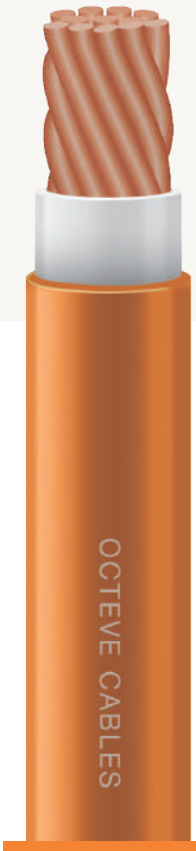
Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.7	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.0	20.4	25.0	95	1849	553
1C 240	19.5	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

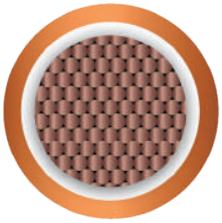
TELECOMMUNICATIONS



Premium Flexible Battery, Telecommunication & Switchboard DC Power

0.9/1.5kV DC 105°C N-RUBBER Flame Retardant ROHS III & REACH compliant





TC

Applications

Flexible Rubber flame retardant single-core double insulated power cable suitable for DC battery, Telecommunication Power & switchboard applications.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation N-RUBBER V-105 Lead-free PVC Thermoplastic.

Sheath N-RUBBER V-105 Lead-free, Flame Retardant, Water, Oil, Sunlight & Ozone resistant.

Insulation Color To customer specification

Sheath Colour To customer specification

Standards IEC 60228, IEC 60502-1, IEC 60332-1
IEC 60332-3-22. IEC 60245-6
AS/NZS 1125, AS/NZS 5000.1
AS/NZS 3808, AS/NZS 3008.1
AS/NZS 1995

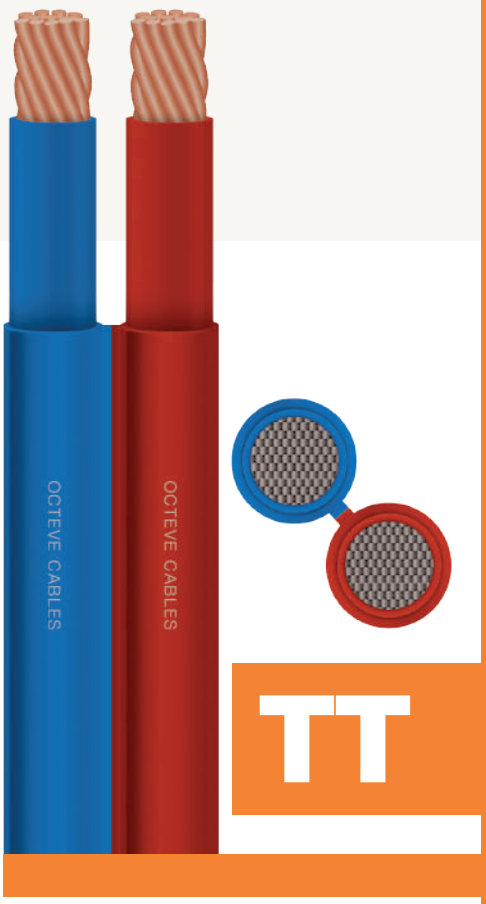
Operating Temp -25°C to +105°C

Voltage Level 900/1500 Volts DC

Number of Conductors & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Minimum Overall Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Spaced Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.6	6.4	6.7	26	67	35
1C 4	2.4	4.4	7.2	7.6	29	84	46
1C 6	3.0	5.0	7.8	8.2	31	107	59
1C 10	3.9	5.9	8.7	9.2	35	153	83
1C 16	4.9	6.9	9.7	10.2	39	213	110
1C 25	6.1	8.5	11.3	11.9	45	308	147
1C 35	7.3	9.8	12.6	13.2	50	412	183
1C 50	8.8	11.7	14.5	15.2	58	572	231
1C 70	10.4	13.3	16.3	17.1	65	768	292
1C 95	12.1	15.3	18.3	19.2	73	992	351
1C 120	13.6	16.9	20.1	21.1	80	1239	418
1C 150	15.5	19.2	22.6	23.7	90	1593	483
1C 185	17.1	21.2	24.6	25.8	98	1910	555
1C 240	19.5	23.9	27.5	28.9	110	2404	668
1C 300	22.0	26.9	30.7	32.2	123	3011	772
1C 400	25.5	30.8	35.0	36.7	140	3972	933
1C 500	28.9	34.6	39.0	40.9	156	4982	1090
1C 630	33.0	38.6	43.4	45.6	174	6372	1288

Flexible Rubber Battery/DC

900/1500 Volts dc - 600/1000 Volts ac 110°C



Applications

Flexible Rubber Twin cable designed for telecommunications, DC Power systems, Battery applications and after industrial.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath N-RUBBER Lead Free PVC Thermoplastic, Elastomeric, Flame Retardant, Ozone and UV resistant. Splash resistant to oils, skydrol, petrol, acid, chemicals, Subsmersible to fresh and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60332-1, IEC 60332-3-22, AS/NZS 1125, AS/NZS 3808, AS/NZ 3008.1, AS/NZS 5000.1

Operating Temp

-40°C to +110°C

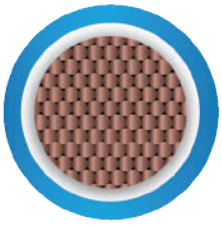
Voltage Level

900/1500 Volts dc
600/1000 Volts ac

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Height (mm)	Nominal Width (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
2C 2.5	2.0	6.6	14.0	26.3	121	34
2C 4	2.6	7.0	14.8	27.9	154	45
2C 6	3.1	7.6	16.1	30.3	199	57
2C 10	4.4	8.7	18.2	34.7	291	80
2C 16	5.4	9.7	20.5	38.8	409	105
2C 25	6.8	11.4	23.9	45.7	602	139
2C 35	7.9	12.8	26.9	51.3	803	172
2C 50	9.0	14.5	30.3	58.2	1118	218

Flexible LSHF Rubber Battery/DC SDI

900/1500 Volts dc - 600/1000 Volts ac 110°C



TR

Applications

Flexible Rubber Twin cable designed for telecommunications, DC Power systems, Battery applications and after industrial.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZ 3008.1

Operating Temp

-40°C to +110°C

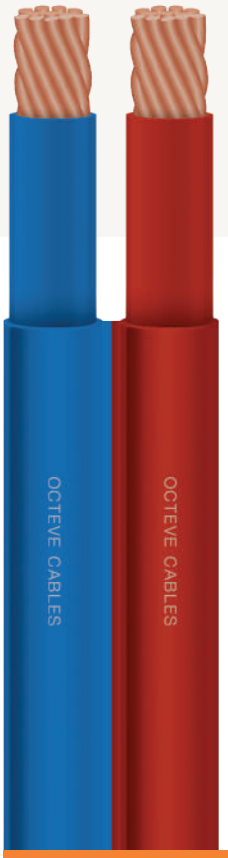
Voltage Level

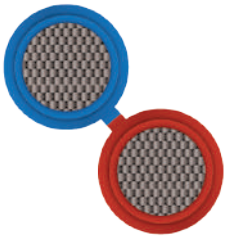
900/1500 Volts dc
600/1000 Volts ac

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating* (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.7	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.0	20.4	25.0	95	1849	553
1C 240	19.6	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

Flexible LSHF Rubber Battery/DC

900/1500 Volts dc - 600/1000 Volts ac 110°C





TS

Applications

Flexible Rubber Twin cable designed for telecommunications, DC Power systems, Battery applications and after industrial.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath HFFLEX ®TP-110 Flame Retardant, Low Smoke Halogen Free. Ozone and UV resistant. Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZ 3008.1

Operating Temp

-40°C to +110°C

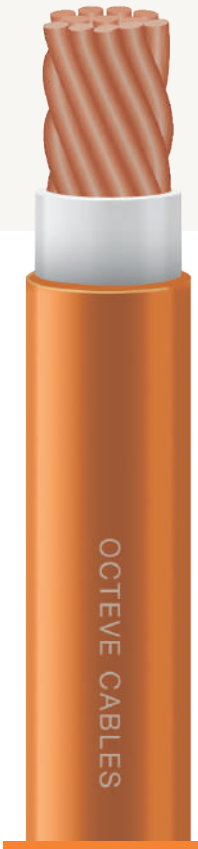
Voltage Level

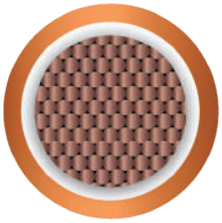
900/1500 Volts dc
600/1000 Volts ac

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Height (mm)	Nominal Width (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
2C 2.5	2.0	6.6	14.0	26.3	121	34
2C 4	2.6	7.0	14.8	27.9	154	45
2C 6	3.1	7.6	16.1	30.3	199	57
2C 10	4.4	8.7	18.2	34.7	291	80
2C 16	5.4	9.7	20.5	38.8	409	105
2C 25	6.8	11.4	23.9	45.7	602	139
2C 35	7.9	12.8	26.9	51.3	803	172
2C 50	9.0	14.5	30.3	58.2	1118	218

Flexible LSHF Rubber SDI Battery/DC SDI

0.6/1KV 110°C





TP

Applications

Flexible Rubber Twin cable designed for telecommunications, DC Power systems, Battery applications and after industrial.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Crosslinked Polyolefin with excellent ageing and dielectric strength properties.

Sheath HFFLEX TP-1110 Flame Retardant,
Low Smoke Halogen Free.
Ozone and UV resistant.
Splash Resistant to oil, chemicals and sea water.

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22, IEC 50754-1/2, IEC 61034-1/2, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3808.1

Operating Temp

-40°C to +110°C

Voltage Level

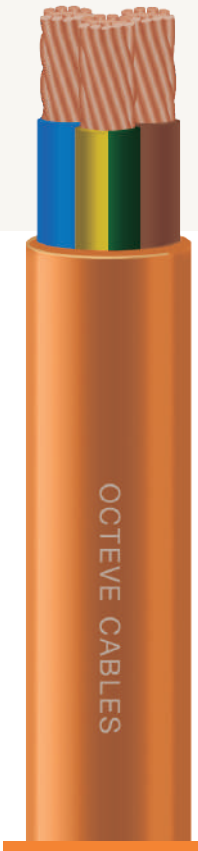
600V dc

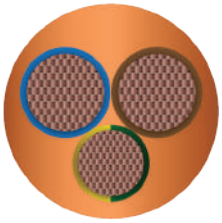
Number of Conductors (C) & Cross Section Area (mm²)	Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Trefoil Unenclosed Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.4	6.5	25	62	36
1C 4	2.4	3.8	7.0	27	76	48
1C 6	3.0	4.4	7.6	29	98	61
1C 10	3.9	5.3	8.5	33	142	85
1C 16	4.9	6.3	9.6	37	201	112
1C 25	6.1	7.9	11.3	43	292	149
1C 35	7.3	9.2	12.5	48	394	184
1C 50	8.7	10.9	14.4	55	548	233
1C 70	10.4	12.7	16.2	62	733	292
1C 95	12.1	14.3	18.2	69	957	353
1C 120	13.6	16.1	20.2	77	1200	418
1C 150	15.5	18.4	22.7	86	1532	482
1C 185	17.1	20.4	25.0	95	1849	553
1C 240	19.6	22.9	27.8	106	2329	665
1C 300	22.0	25.7	30.9	118	2921	766
1C 400	25.5	29.6	35.2	134	3842	918
1C 500	28.9	33.3	39.6	151	4844	1064
1C 630	33.0	37.8	44.6	170	6190	1240

HEAVY DUTY
(FLEXIBLE WIRING)

Flexible Rubber Multi-Core

0.6/1KV 110°C





HE
MULTI

Applications

Heavy Duty Power Cable designed for more mecanically demanding applications

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Halogen Free Crosslinked Rubber

Sheath Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC Flame Retardant, Water, Oil, Sunlight and Ozone Resistant. Submersible to 1000 meters

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-1, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1,AS/NZS 3000

Operating Temp

-40°C to +110°C

Voltage Level

600/1000 Volts

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
2C 1.5 +1.5E	1.5	9.9	40	127	28
2C 2.5 +2.5E	2.0	11.4	46	179	38
2C 4 +4E	2.4	12.4	50	238	50
2C 6 +6E	3.0	14.1	57	326	63
2C 10 +10E	3.9	18.8	75	570	88
2C 16 +16E	4.9	21.3	85	795	116
2C 25 +25E	6.1	25.9	103	1199	154
2C 35 +35E	7.3	29.5	118	1604	190
2C 50 +50E	8.7	33.6	135	2225	238
2C 70 +70E	10.4	38.4	154	2973	299
2C 95 +95E	12.1	43.4	174	3964	357
2C 120 +120E	13.6	48.7	195	4906	421
2C 150 +150E	15.5	54.5	218	6198	482
2C 185 +185E	17.0	60.3	241	7526	547
2C 240 +240E	19.6	67.0	268	9548	652
2C 300 +300E	22.0	73.3	293	11906	745

HE MULTI

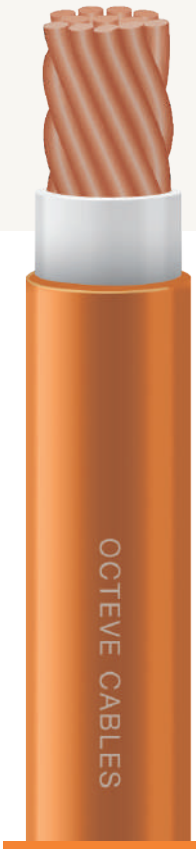
Flexible Rubber Multi-Core

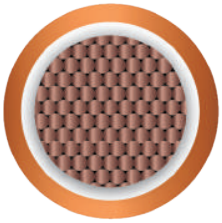
0.6/1KV 110°C

Number of Conductors (C) & Cross Section Area (mm^2)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
3C 1.5 + 1.5E	1.5	10.8	43	155	24
3C 2.5 + 2.5E	2.0	12.5	50	218	32
3C 4 + 4E	2.4	13.9	56	300	42
3C 6 + 6E	3.0	15.9	63	410	54
3C 10 + 10E	3.9	20.6	82	706	75
3C 16 + 16E	4.9	23.3	93	990	99
3C 25 + 25E	6.1	28.5	114	1506	131
3C 35 + 35E	7.3	32.5	130	2016	162
3C 50 + 50E	8.7	37.2	149	2802	204
3C 70 + 70E	10.4	42.5	170	3764	255
3C 95 + 95E	12.1	48.5	194	5017	306
3C 120 + 120E	13.6	54.1	217	6226	360
3C 150 + 150E	15.5	60.7	243	7886	413
3C 185 + 185E	17.0	67.0	268	9558	470
3C 240 + 240E	19.6	74.4	298	12158	559
3C 300 + 300E	22.0	81.5	326	15165	638
4C 1.5 + 1.5E	1.5	11.9	48	194	24
4C 2.5 + 2.5E	2.0	14.0	56	278	32
4C 4 + 4E	2.4	15.4	61	371	42
4C 6 + 6E	3.0	17.6	70	507	54
4C 10 + 10E	3.9	22.5	90	861	75
4C 16 + 16E	4.9	25.9	103	1221	99
4C 25 + 25E	6.1	31.5	126	1850	131
4C 35 + 35E	7.3	36.2	145	2490	162
4C 50 + 50E	8.7	41.5	166	3474	204
4C 70 + 70E	10.4	47.5	190	4656	255
4C 95 + 95E	12.1	54.1	217	6219	306
4C 120 + 120E	13.6	60.6	242	7727	360
4C 150 + 150E	15.5	68.0	272	9764	413
4C 185 + 185E	17.0	75.0	300	11846	470
4C 240 + 240E	19.6	83.5	334	15080	559

Flexible Rubber SDI

0.6/1KV 110°C





HE
SDI

Applications

Heavy Duty Power Cable designed for more mecanically demanding applications

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX® X-110 Halogen Free Crosslinked Rubber

Sheath Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC Flame Retardant, Water, Oil, Sunlight and Ozone Resistant. Submersible to 1000 meters

Insulation Color

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-1, AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008.1,AS/NZS 3000

Operating Temp

-40°C to +110°C

Voltage Level

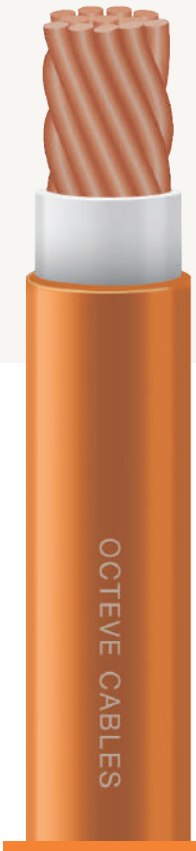
600/1000 Volts

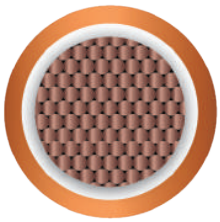
Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
1C 6	3.0	4.6	8.1	32	104	57
1C 10	3.9	5.7	9.3	37	155	80
1C 16	4.9	6.8	10.5	42	219	105
1C 25	6.1	8.5	12.7	51	329	139
1C 35	7.3	9.9	14.5	58	445	172
1C 50	8.8	11.6	16.7	67	623	217
1C 70	10.4	13.4	18.9	76	833	273
1C 95	12.1	15.5	21.6	86	1117	329
1C 120	13.6	17.5	23.9	96	1379	390
1C 150	15.5	19.7	26.9	107	1746	450
1C 185	17.1	21.9	29.2	117	2096	516
1C 240	19.5	24.4	32.0	128	2642	620
1C 300	22.0	27.5	34.7	139	3287	714
1C 400	25.5	31.0	39.2	157	4194	855
1C 500	28.9	34.7	43.2	173	5251	990
1C 630	33.0	38.8	47.8	191	6543	1154

WELDING

Premium Flexible Welding Cable

0.9/1.5kV DC 105°C N-RUBBER Flame Retardant ROHS III & REACH compliant





WE

Applications

Flexible Rubber flame retardant single-core double insulated power cable suitable for DC battery, Welding & switchboard applications.

Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation N-RUBBER V-105 Lead-free PVC Thermoplastic.

Sheath N-RUBBER V-105 Lead-free, Flame Retardant, Water, Oil, Sunlight & Ozone resistant.

Insulation Color

To customer specification

Sheath Colour

To customer specification

Standards

IEC 60228, IEC 60502-1, IEC 60332-1
IEC 60332-3-22. IEC 60245-6
AS/NZS 1125, AS/NZS 5000.1
AS/NZS 3808, AS/NZS 3008.1
AS/NZS 1995

Operating Temp

-25°C to +105°C

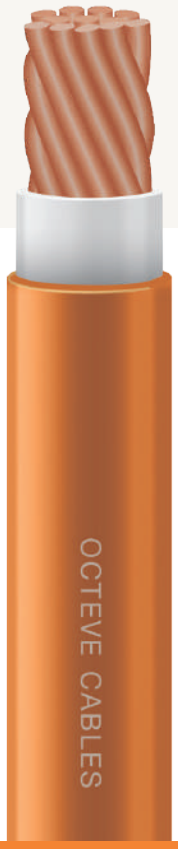
Voltage Level

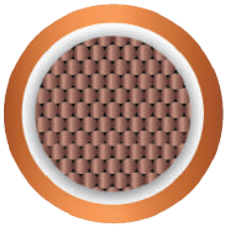
900/1500 Volts DC

Number of Conductors (C) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Insulation Diameter (mm)	Minimum Overall Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)	Current Rating Spaced Ambient: 40°C in Air (Amps)
1C 2.5	2.0	3.6	6.4	6.7	26	67	35
1C 4	2.4	4.4	7.2	7.6	29	84	46
1C 6	3.0	5.0	7.8	8.2	31	107	59
1C 10	3.9	5.9	8.7	9.2	35	153	83
1C 16	4.9	6.9	9.7	10.2	39	213	110
1C 25	6.1	8.5	11.3	11.9	45	308	147
1C 35	7.3	9.8	12.6	13.2	50	412	183
1C 50	8.8	11.7	14.5	15.2	58	572	231
1C 70	10.4	13.3	16.3	17.1	65	768	292
1C 95	12.1	15.3	18.3	19.2	73	992	351
1C 120	13.6	16.9	20.1	21.1	80	1239	418
1C 150	15.5	19.2	22.6	23.7	90	1593	483
1C 185	17.1	21.2	24.6	25.8	98	1910	555
1C 240	19.5	23.9	27.5	28.9	110	2404	668
1C 300	22.0	26.9	30.7	32.2	123	3011	772
1C 400	25.5	30.8	35.0	36.7	140	3972	933
1C 500	28.9	34.6	39.0	40.9	156	4982	1090
1C 630	33.0	38.6	43.4	45.6	174	6372	1288

Premium Flexible Welding Cable

0.6/1KV 75°C





WF
V-75

• Applications

Flexible Cable Suitable for welding and Generator Main

• Design Construction

Conductors Flexible stranded high conductivity plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation PVC V-75 Flame Retardant, Thermoplastic.

Sheath PVC V-75 Flame Retardant, Thermoplastic.

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1
IEC 60332-3-22. IEC 60245-6
AS/NZS 1125, AS/NZS 5000.1
AS/NZS 1660.5.1, AS/NZS 1660.5.6
AS/NZS 3808, AS/NZS 1995

• Operating Temp

-25°C to + 75°C

• Voltage Level

600/1000 Volts

Cross Section Area (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Overall Diameter Nominal (mm)	Approx Weight (kg/km)
10	37	4.1	6.2	9.2	164
16	41	5.1	7.2	20.3	224
25	48	6.4	8.9	12.0	328
35	54	7.8	10.3	13.4	431
50	61	9.2	12.1	15.3	601
70	68	10.8	13.7	17.1	795
95	79	12.8	16.1	19.7	1073
120	86	14.5	17.8	21.5	1303
150	96	16.3	20.0	23.9	1644
185	105	18.0	22.1	26.3	1990
240	117	20.3	24.8	29.2	2541

**There is +/-2% tolerance to the Nominal values due to manufacturing process variations. Octeve is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

Cross Section Area (mm²)	Current Rating 10-minute duty cycle (percent)		
	100	60	40
10	75	76	81
16	105	108	117
25	138	146	164
35	172	187	213
50	218	242	282
70	272	310	366
95	326	380	456
120	381	448	543
150	448	532	648
185	502	605	742
240	598	728	897

Conductor Stranding - Approx. number of wires

Size (mm²)	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
	144	244	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736

Welding Cables SDI

Insulation X-70 750 V 70°C

WH

• Applications

Welding Cables.

• Design Construction

Conductors Fine stranded annealed plain copper.

Insulation PVC 70°C

Sheath PVC 70°C

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Operating Temp

-25°C to +70°C

• Voltage Level

750 Volts

Flexible Rubber Power Cable Specifications (SDI)

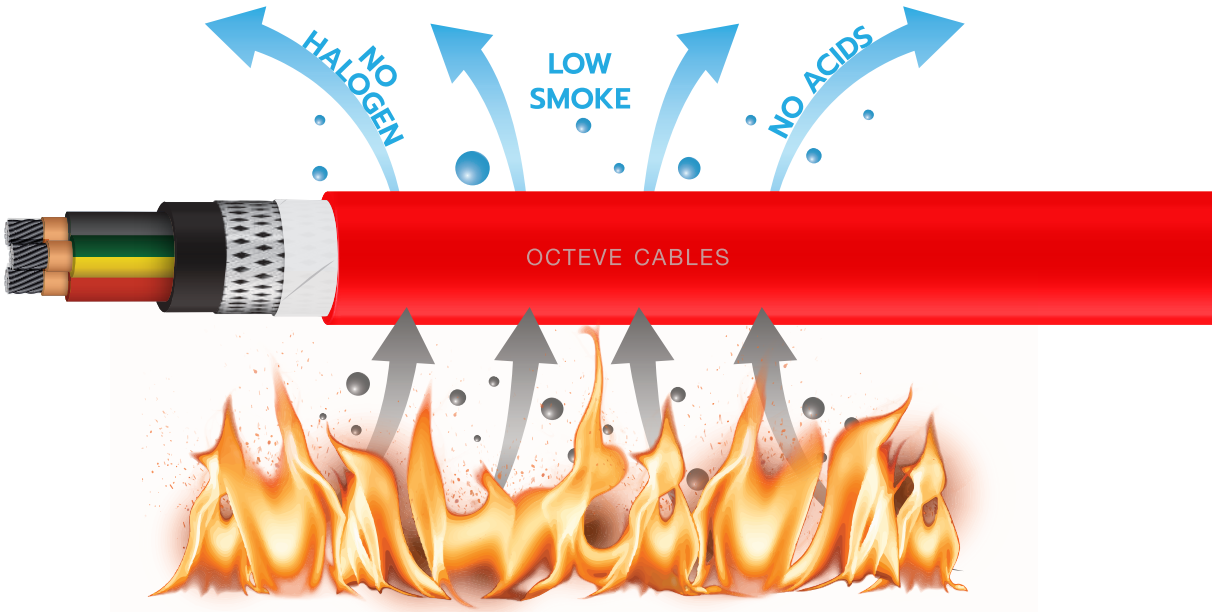
Number of Conductors (C) & Cross Section Area (mm^2)		Number of Wires	Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Overall Diameter Nominal (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1C25	12	173/0.3	4.40	8.40	12.00	37	261
1C35	18	259/0.3	5.40	9.40	1340	41	346
1C50	26	371/0.3	6.40	10.60	14.80	46	454
1C70	37	525/0.3	7.70	12.10	16.50	51	602

Technical Information

Low Smoke Halogen Free (LSHF)

Low Smoke Halogen Free (LSHF) cables are made of compounds that emit limited smoke and no halogen when exposed to high heat or flames. This makes them ideal for use in areas where the release of toxic fumes in the event of a fire could be hazardous to people or equipment. LSHF cables are commonly used in areas where fire safety is a priority.

1. **Material:** LSHF cables are typically made with jacket materials that do not contain halogen compounds. The insulation and sheathing materials are chosen to reduce the emission of toxic smoke and gases when the cable is exposed to high temperatures.
2. **Safety:** In the event of a fire, these cables produce significantly lower levels of smoke and toxic gases. This can help in providing a safer evacuation route and reduce the risk of inhalation of harmful substances.
3. **Application:** LSHF cables are commonly used in indoor applications where there is a high concentration of people. They are also used in poorly ventilated areas where the dispersion of smoke and toxic fumes is limited.
4. **Compliance:** Many building codes and regulations now require the use of LSHF cables in certain applications to improve fire safety standards.
5. **Benefits:** Apart from the safety advantages, LSHF cables are also environmentally friendly. They produce less toxic smoke and gases, reducing the impact on the environment in the event of a fire. Their unique construction helps to contain the spread of smoke and harmful substances, making them a preferred choice over tradition PVC (Polyvinyl Chloride) materials.



Product Coding

1 Product Series ***Ex: SH series, EA series, SH2 class 2 series.

2 Number of Cores

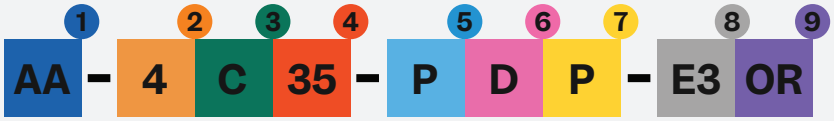
3 Core Type

C = Power/Control
P = Pair
Q = Quad
T = Triad

4 Conductor Cross Section Area (mm²)

5 Conductor

T = TACW (Tinned Annealed Copper Wire)
P = PACW (Plain Annealed Copper Wire)



Example: AA-4C35-PDP-E3OR

▶ Series AA, 4 Cores, Core, Size 35 mm², PACW, SWA, N-RUBBER, Cores color are brown black gray and earth (yellow/green), Jacket color is orange

6 Braid/Amour & Screened

A = GSWB (Galvanized Steel Wire Braid)
B = TCWB (Tinned Copper Wire Braid)
C = AWA (Aluminum Wire Armour)
D = SWA (Steel Wire Armour)

7 Jacket Type

L = SHF-1
M= MUD
F = SHF-2
P = N-RUBBER

8 Core Color

POWER

	1 Core	2 Cores	3 Cores	4 Cores	5 Cores	
A1	WH	RE BK	RE BK YG	RE WH BL YG	RE WH BL BK YG	Australia (Fixed) with Earth
A3	WH	BR BL	BR BL YG	BR BK BL YG	BR BK WH BL YG	Australia (Flexible)
U1	WH	BK WH	BK WH RE	BK WH RE GN	BK WH RE OR GN	US IEEE 1580
E2	WH	BL BR	BR BK GY	BL BR BK GY	BL BR BK GY BK	Europe (inc UK) no Earth
E3	WH	BR BL	BR BL YG	BR BK GY YG	BR BK GY BL YG	Europe (inc UK) with Earth

CONTROL

C1	White with Y/G Earth	Black numbers and words "ONE 1 / TWO 2"
C2	White, no Earth	Black numbers and words "ONE 1 / TWO 2"

INSTRUMENTATION

	2 Cores		3 Cores	
P1	WH BK	Black/White numbers and words "ONE 1 / TWO 2" "THREE 3 / FOUR 4"	WH BK RE	Black/White/Black numbers and words "ONE 1 / TWO 2 / THREE 3" "FOUR 4 / FIVE 5 / SIX 6"
P2	BL BR	Black/White numbers and words "ONE 1 / TWO 2" "THREE 3 / FOUR 4"	BR BL BK	Black/White/Black numbers and words "ONE 1 / TWO 2 / THREE 3" "FOUR 4 / FIVE 5 / SIX 6"

9 Jacket Color

Ex: BK = ● RE = ● BL = ● WH = ⓘ BR = ● GY = ● YE = ● GN = ● OR = ● YG = ●

**** X = None (Applicable for different category).
***** Available in meters or feet.

Conductor Stranding according to IEC 60228

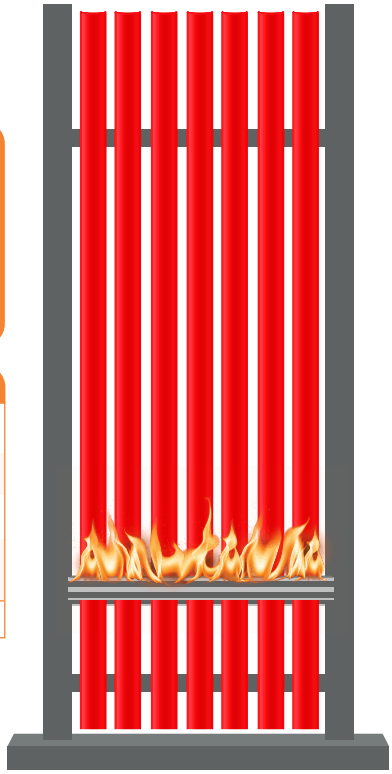
Conductor stranding - approx number of wires x wire diameter (mm)			Class 2 (IEC 60228)	Class 5 (IEC 60228)	Class 6 (IEC 60228)
SIZE (mm^2)	Octeve Class 2	Octeve Flexible			
0.5	7 x 0.301	7 x 0.301	**7 x 0.30**	16 x 0.21	28 x 0.16
0.75	11 x 0.301	11 x 0.301	**7 x 0.37**	24 x 0.21	42 x 0.16
1	14 x 0.301	14 x 0.301	**7 x 0.43**	32 x 0.21	56 x 0.16
1.5	21 x 0.301	21 x 0.301	**7 x 0.52**	30 x 0.26	84 x 0.16
2.5	35 x 0.301	35 x 0.301	**7 x 0.67**	50 x 0.26	140 x 0.16
4	7 x 0.85	51 x 0.301	**7 x 0.85**	56 x 0.31	224 x 0.16
6	7 x 1.04	77 x 0.301	**7 x 1.04**	84 x 0.31	192 x 0.21
10	12 x 1.04	133 x 0.301	7 x 1.35	**80 x 0.41**	320 x 0.21
16	7 x 1.80	210 x 0.301	7 x 1.71	**128 x 0.41**	512 x 0.21
25	12 x 1.80	322 x 0.301	7 x 2.13	**200 x 0.41**	800 x 0.21
35	14 x 1.80	455 x 0.301	7 x 2.52	**280 x 0.41**	1120 x 0.21
50	19 x 1.80	658 x 0.301	19 x 1.83	**400 x 0.41**	705 x 0.31
70	27 x 1.80	924 x 0.301	19 x 2.17	**356 x 0.51**	990 x 0.31
95	37 x 1.80	1232 x 0.301	19 x 2.52	**485 x 0.51**	1340 x 0.31
120	48 x 1.80	1558 x 0.301	37 x 2.03	**614 x 0.51**	1690 x 0.31
150	61 x 1.80	2014 x 0.301	37 x 2.27	**765 x 0.51**	2123 x 0.31
185	75 x 1.80	2400 x 0.301	37 x 2.52	994 x 0.51	**1470 x 0.41**
240	91 x 1.80	3145 x 0.301	37 x 2.87	1125 x 0.51	**1905 x 0.41**
300	114 x 1.80	3922 x 0.301	61 x 2.5	1530 x 0.51	**2385 x 0.41**
400	61 x 2.85	5194 x 0.301	61 x 2.89	2035 x 0.51	**3200 x 0.41**
500	61 x 3.20	6572 x 0.301	61 x 3.23	1830 x 0.61	**4010 x 0.41**
630	127 x 2.52	8424 x 0.301	91 x 2.97	2306 x 0.61	**5020 x 0.41**

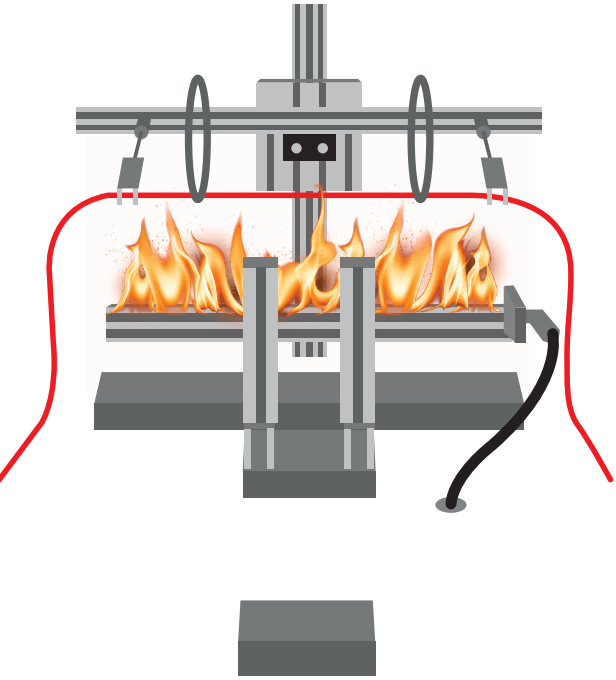
IEC Specifications

Standard	Title of test
IEC 60092-350	General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications
IEC 60092-352	Electrical installations in ships: Choice and installation of electrical cables
IEC 60092-353	Electrical installations in ships: Power cables for rated voltages 1 kV and 3 kV
IEC 60092-354	Single- and three-core power cables with extruded solid insulation for rated voltages 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)
IEC 60092-360	Electrical installations in ships: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables
IEC 60092-376	Electrical installations in ships: Cables for control and instrumentation circuits 150/250 V (300 V)
IEC 60227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V: General requirements
IEC 60228	Conductors of insulated cables
IEC 60331	Tests for electric cables under fire conditions - Circuit integrity: Test method for fire with shock at a temperature of at least 830 °C for cables of rated voltage up to and including 0,6/1,0 kV and with an overall diameter exceeding 20 mm
IEC 60332-1	Tests on electric and optical fibre cables under fire conditions: Test for vertical flame propagation for a single insulatedwire or cable
IEC 60332-3-22	Tests on electric and optical fibre cables under fire conditions:Test for vertical flame spread of vertically-mounted bunched wires or cables
IEC 60754 1&2	Test on gases evolved during combustion of materials from cables: Determination of the halogen acid gas content & Determination of acidity (by pH measurement) and conductivity
IEC 61034 1&2	Measurement of smoke density of cables burning under defined conditions: Test apparatus & Test procedure and requirements
IEC 60502-1	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV): Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)

The Flame Retardant Test for IEC 60332-3 is a standard test method used to evaluate the vertical flame spread characteristics of cables. This test measures the cables' ability to resist the propagation of fire along their length when exposed to a small flame ignition source.

	Category A	Category B	Category C	Category D
IEC Standard	60332-3-22	60332-3-23	60332-3-24	60332-3-25
Sample Lengths	3.5 meters	3.5 meters	3.5 meters	3.5 meters
Flame Time	40 mins	40 mins	20 mins	20 mins
Volume of Material	7.0 litre / M.	3.5 litre / M.	1.5 litre / M.	0.5 litre / M.
Passing Criteria: The extent of charred portion does not exceed height of 2.5 meters				





The Fire Rest for IEC 60331 is astandard test method for conducting fire-resistance tests on electrical cables to maintain circuit integrity under defined conditions. The test measures the cable's ability to operate while withstanding at least 830C temperature for 90 minutes and 15 minutes of cooling time.

Conductor Data & Current Rating

SHORT CIRCUIT RATING - mm²

Cross Sectional Area (mm2)	Short Circuit (Amps for 1 second)		Voltage Drop at 50Hz (mV/Am)			
			Single Core		Multicore	
	90°C	110°C	90°C	110°C	90°C	110°C
0.5	72	66	86.1	91.4	86.1	91.4
0.75	107	99	57.4	61.0	57.4	61.0
1	143	132	43.1	45.7	43.1	45.7
1.5	215	198	29.4	31.2	29.4	31.2
2.5	358	330	17.6	18.7	17.6	18.7
4	572	528	10.9	11.6	10.9	11.6
6	858	792	7.29	7.74	7.29	7.74
10	1430	1320	4.22	4.48	4.22	4.48
16	2288	2112	2.68	2.84	2.68	2.84
25	3575	3300	1.73	1.84	1.73	1.84
35	5005	4620	1.24	1.31	1.23	1.31
50	7150	6600	0.869	0.921	0.866	0.917
70	10010	9240	0.622	0.658	0.618	0.654
95	13585	12540	0.483	0.509	0.477	0.504
120	17160	15840	0.388	0.408	0.383	0.403
150	21450	19800	0.325	0.340	0.318	0.334
185	26455	24420	0.280	0.293	0.273	0.286
240	34320	31680	0.233	0.242	0.225	0.234
300	42900	39600	0.207	0.213	0.198	0.205
400	57200	52800	0.183	0.187	0.174	0.178
500	75100	66000	0.169	0.172	0.160	0.163
630	90090	83160	0.157	0.159	-	-

*AS/NZS3008.1.1:2009, Table 46 and Table 48. To determine the single-phase Voltage drop,

CONDUCTOR DC RESISTANCE AT 20°C

Cross Sectional Area (mm2)	Maximum Resistance of Copper Conductor (ohm/km)			
	Class 2		Class 5	
	Plain	Tinned	Plain	Tinned
0.5	36.0	36.7	39.0	40.1
0.75	24.5	24.8	26.0	26.7
1	18.1	18.2	19.5	20.0
1.5	12.1	12.2	13.3	13.7
2.5	7.41	7.56	7.98	8.21
4	4.61	4.7	4.95	5.09
6	3.08	3.11	3.30	3.39
10	1.83	1.84	1.91	1.95
16	1.15	1.16	1.21	1.24
25	0.727	0.734	0.780	0.795
35	0.524	0.529	0.554	0.565
40	0.387	0.391	0.386	0.393
70	0.268	0.270	0.272	0.277
95	0.193	0.195	0.206	0.210
120	0.153	0.154	0.161	0.164
150	0.124	0.126	0.129	0.132
185	0.0991	0.100	0.106	0.108
240	0.0754	0.0762	0.0801	0.0817
300	0.0601	0.0607	0.0641	0.0654
400	0.0470	0.0475	0.0486	0.0495
500	0.0366	0.0369	0.0384	0.0391
630	0.0283	0.0286	0.0287	0.0292

*Calculated Values. To determine the single-phase Voltage drop, multiply the three-phase value by 1.155. All information above is intended as a guide only.

CONVERSION TABLE - CROSS SECTIONAL AREA

AWG	mm²	MCM
	0.5	0.99
20	0.52	1.02
	0.75	1.48
18	0.82	1.62
	1	1.97
16	1.31	2.58
	1.5	2.96
14	2.08	4.11
	2.5	4.93
12	3.31	6.53
	4	7.89
10	5.27	10.4
	6	11.8
8	8.36	16.5
	10	19.7
6	13.3	26.3
	16	31.6
4	21.1	41.7
	25	49.3
2	33.6	66.4
	35	69.1
1	42.4	83.7
	50	98.7
1/0	53.7	106
2/0	67.4	133
	70	138
3/0	85.1	168
	95	187
4/0	107	212
	120	237
	127	250
	133	262
	150	296
	152	300
	159	313
	177	350
	185	365
	189	373
	203	400
	225	444
	240	474
	253	500
	271	535
	300	592
	304	600
	327	646
	380	750
	394	777
	400	789
	500	987
	507	1000
	563	1111
	630	1243
	633	1250

Maximum Conductor Temperature	CORRECTION FACTORS FOR CABLE CURRENT RATING													
	Ambient Temperaturen in Air							Ambient Temperaturen in Ground						
°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
110	1.10	1.07	1.04	1.00	0.96	0.93	0.89	1.10	1.07	1.04	1.00	0.96	0.93	0.89
90	1.15	1.1	1.05	1	0.94	0.88	0.81	1.15	1.10	1.05	1.00	0.94	0.88	0.81

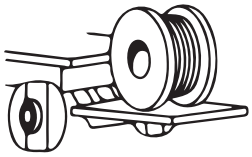
Industry Cable Designations

ADDITIONAL ABBREVIATION FOR INSTRUMENTATION CABLES: (C) COLLECTIVE SCREEN, (I) INDIVIDUAL PAIR OR TRIPLE SCREEN

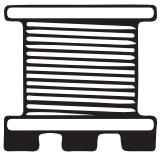
1st Letter Insulation		2nd Letter Bedding/inner jacket		3rd Letter Armouring/screen		4th Letter Outer jacket	
A	Fibre, tight cladded	A	Aluminium (optional with corrosion protection)	A	Strength member yarn	A	Yarn + bitumen
B	Fire resistant tape + insulation (Halogen-free	B	Corrugated aluminium (o.w.c.p.)	B	Steel tapes, 2 off	B	Hydrocarbon resistant jacket
C	Polychloroprene (Neoprene) PCP, or chlorinated polyethylene - CPE	C	Polychloroprene (Neoprene) PCP, or chlorinated polyethylene - CPE	C	Galvanized steel wire braid	C	Polychloroprene Neoprene) PCP, or chlorinated polyethylene CPE
D	Impregnated paper Drip free	D	Aluminium + Plastics	D	Oil filled cable reinforcement (Longitudinal/Transverse)	D	
E	Polyethylene - PE Polypropylene - PP	E	Polyethylene - PE Polypropylene - PP	E	Oil filled cable reinforcement (Transverse only)	E	Polyethylene - PE Polypropylene - PP
F	PE or PP + filling compound	F	Bedding or taping (Halogen-free)	F	Flat steel wire armour	F	Semi-conducting PE
G	Polyamid - PA	G		G		G	PE + PA
H	Chlorosulphonated polyethylene - CSP	H	Chlorosulphonated polyethylene - CSP	H	Steel tape + steel wires	H	Chlorosulphonated polyethelene - CSP
I	Thermoplastic compound (Halogen-free)	I	Thermoplastic compound (Halogen-free)	I	Steel tapes, 4 off	I	Thermoplastic compound (Halogen-free)
K	Paper	K	Lead	K	Steel wire, plastics or rubber coated	K	Lead
L	Air + plastics (Coaxial cable)	L	Aluminium laminate + plastics jacket	L	Aluminium (laminated to outer jacket)	L	
M	Expanded PE or PP + filling compound	M	Polyester	M		M	Polyester
N	Impregnated paper	N	Polyurethane	N	Steel (laminated to outer jacket)	N	Polyurethane
O	Impregnated paper, oil filled cable	O	Lead + Plastics	O	Copper wire braid (Tinned or bare)	O	
P	Polyvinyl chloride - PVC	P	Polyvinyl chloride - PVC	P	Phosphor bronze wire braid	P	Polyvinyl chloride - PVC
Q	Fibre in loose tube	Q		Q	Steel wires + counter steel tape (optional)	Q	
R	Ethylene propylene rubber - EPR	R	Ethylene propylene rubber - EPR	R	Steel wires (round) + filling compound	R	Ethylene propylene rubber - EPR
S	Silicon rubber	S	Bedding or taping + concentric conductor	S	Concentric conductor (Screen)	S	Silicone rubber
T	Cross-linked polyethylene XLPE	T	PE + aluminium wire + steel tape	T		T	Cross-linked polyethylene XLPE
U	Halogen-free thermoset compound EMA or EVA	U	Halogen-free thermoset compound EMA or EVA	U		U	Halogen-free thermoset compound EMA or EVA
V	Fibre, slotted core	V	Aluminium screen	V	Double wire armour (two layers)	V	Other halogen-free thermoset materials
W	Other materials	W	Other materials	W	Catenary wire	W	Other materials
X	No insulation	X	No bedding or equivalent	X	No armour	X	No jacket
Y		Y	Screen	Y		Y	
Z	Four plastics PTFE/FEP	Z	Four plastics	Z		Z	Four plastics

Drum Handling Do's & Don'ts

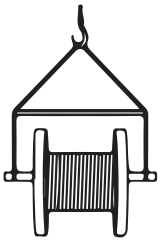
Do's



Suitable loading equipments such as hoist or forklift should be used, during transpotation.

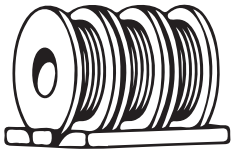


Pallets or spacers should be used to support drums for easier forklift handling.



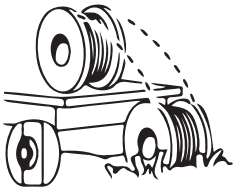
In order to lift or hoist drums, spreader beam should be used.

Carefully insert forklift into pallet and/or lifted on both flanges.



Drums must be fixed and secured.

Don'ts



Avoid dropping or rolling off drums. Never drop from truck or ramp.

Avoid handling large or heavy drums without pallet support.

Avoid damaging or lateral on flanges while being hoisted.

Avoid lifting only one side of the flange.

Avoid any direct cantact with cable wrapping or cable itself.

OCTEVE®

Edition 1