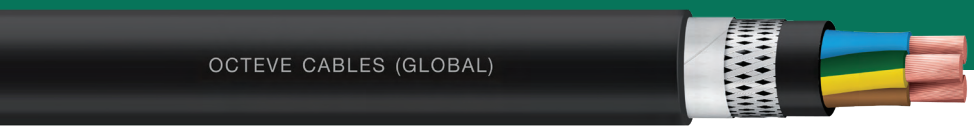
Edition 1

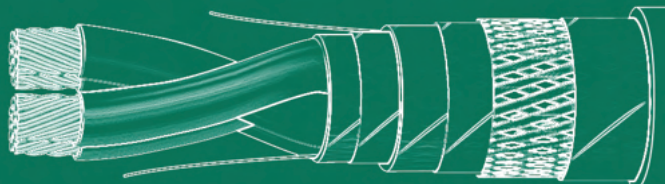
OCTEVE CABLES (GLOBAL)

Verde



Renewable Energy

OCTEVE®



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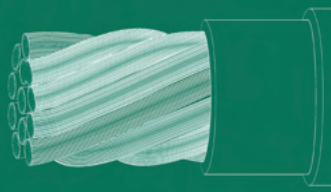
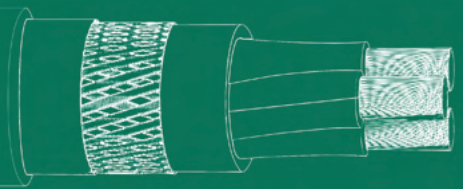


OCTEVE CABLES (GLOBAL)



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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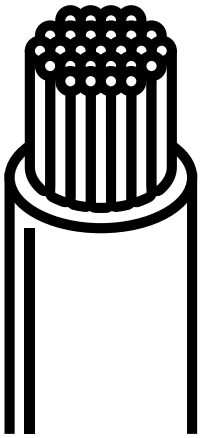
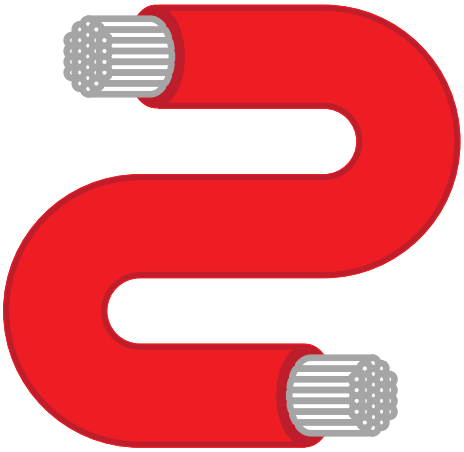
Why Octeve cables?

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

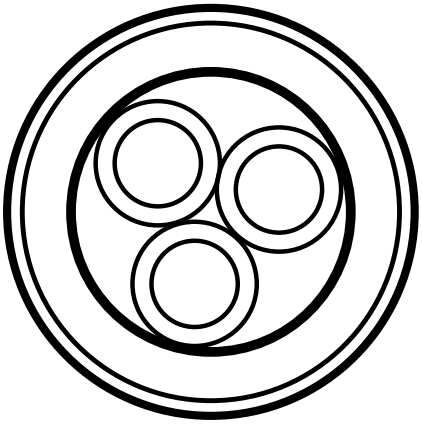
Octeve Cables offer flexible cable construction with a wide range of high performance specialized polymers, LSHF or PVC, that provides significant advantages in terms of durability, safety, and electrical performance.

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

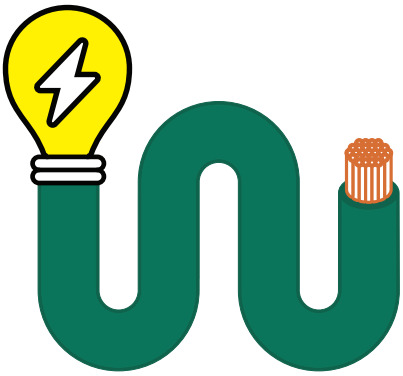
Octeve Cables abilities to customize cables significantly enhances our ability to meet customer needs, improve efficiency, while maintaining a competitive edge.

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.

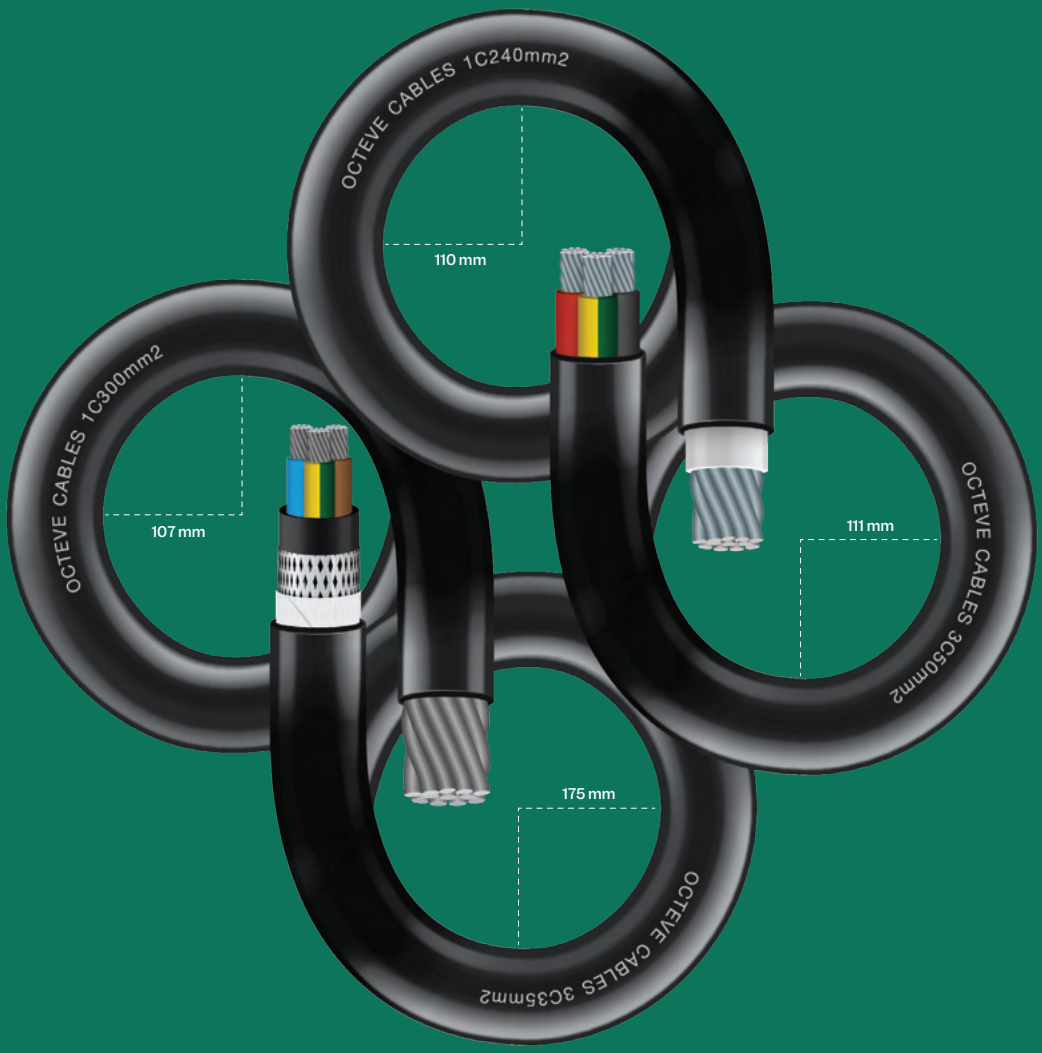


Cable Management

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.

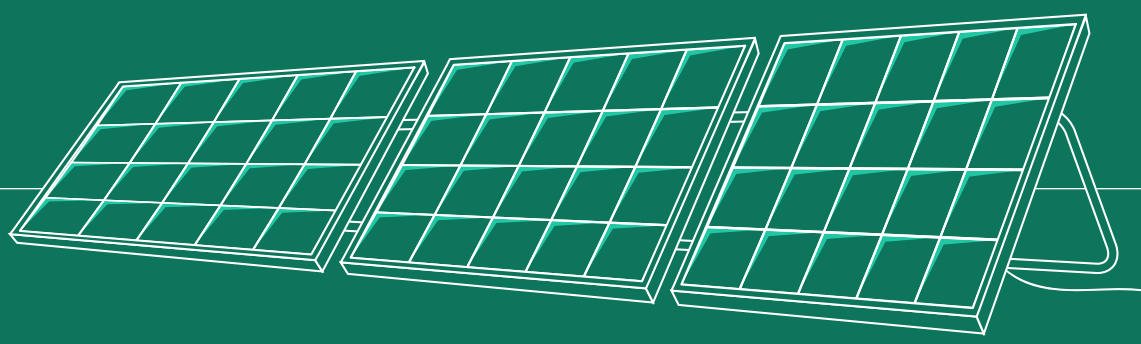
As part of our cable management solutions, our markings facilitate accurate measurement and installation, which helps reduce waste, and support effective project planning.

FLEXIBLE CONSTRUCTION



LOW BENDING RADIUS

SOLAR CABLES



Single-Core Double Insulated for Solar

1.5/1.5kV dc 120°C LSHF Flame Retardant, Water Resistant ROHS III & REACH Compliant

SO

• Applications

Flexible Rubber SDI for roof, inland solar farm and floating solar farm applications.

• Design Construction

Conductors Flexible stranded tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX X-125 Halogen Free Crosslinked Rubber.

Sheath HFFFLEX X-40 Crosslinked Polyolefin Flame Retardant Low Smoked Halogen Free. Water, Oil, Sunlight and Ozone Resistant. Excellent abrasion resistant.

• Insulation Color White

• Sheath Colour Black

• Standards IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22 CAT A, IEC 60754-1&2, IEC 61034-1&2, AS/NZS 1125, AS/NZS 5000.1 IEC 62930 AS/NZS 3008.1, AS/NZS 5033

• Operating Temp -40°C to +120°C

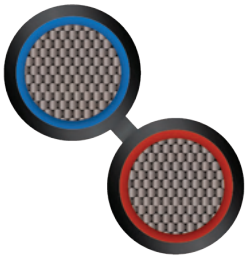
• Voltage Level 600/1000 Volts, ac 1500/1500 Volts, dc

Number of Conductors (C) & Cross Section Area (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal Overall Diameter (mm)	Approx Weight (kg/km)	Current Rating Unenclosed Touching 30°C Ambient in Air (Amps)	Current Rating Unenclosed Touching 40°C Ambient in Air (Amps)
1C 4	22	2.5	3.9	5.4	57	48	45
1C 6	24	3.0	4.4	6.0	77	61	57
1C 10	28	4.0	5.4	7.0	121	86	80
1C 16	32	5.0	6.4	8.1	175	112	105
1C 25	44	6.2	8.1	11.1	299	149	19
1C 35	50	7.4	9.2	12.5	399	184	172
1C 50	56	8.8	10.8	14.1	555	233	218
1C 70	64	10.6	12.9	16.1	748	292	273
1C 95	72	12.3	14.5	18.1	993	352	329
1C 120	81	13.9	16.4	20.2	1230	417	390
1C 150	90	15.1	17.9	22.6	1557	482	450
1C 185	99	16.9	20.2	24.7	1875	552	516
1C 240	110	18.9	22.4	27.4	2397	664	621
1C 300	120	21.5	25.2	30.0	3017	766	716
1C 400	137	24.5	28.6	34.3	884	920	860
1C 500	153	27.3	31.8	38.2	4886	1069	999
1C 630	169	30.2	35.1	42.4	6113	1250	1168

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Twin Double Insulated for Solar

1.5/1.5kV dc 120°C LSHF Flame Retardant, Water Resistant ROHS III & REACH Compliant



ST

• Applications

Flexible Rubber SDI for roof, inland solar farm and floating solar farm applications.

• Design Construction

Conductors Flexible stranded tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation HFFLEX X-125 Halogen Free Crosslinked Rubber.

Sheath HFFFLEX X-40 Crosslinked Polyolefin Flame Retardant Low Smoked Halogen Free. Water, Oil, Sunlight and Ozone Resistant. Excellent abrasion resistant.

• Insulation Color

Red and Blue

• Sheath Colour

Black

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1, IEC 60332-3-22 CAT A, IEC 60754-1&2, IEC 61034-1&2, AS/NZS 1125, AS/NZS 5000.1, IEC 62930 AS/NZS 3008.1, AS/NZS 5033

• Operating Temp

-40°C to +120°C

• Voltage Level

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

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* (Amps)
2C	4	2.4	5.8	12.2	23	137	53
2C	6	3.0	6.3	13.2	25	180	67

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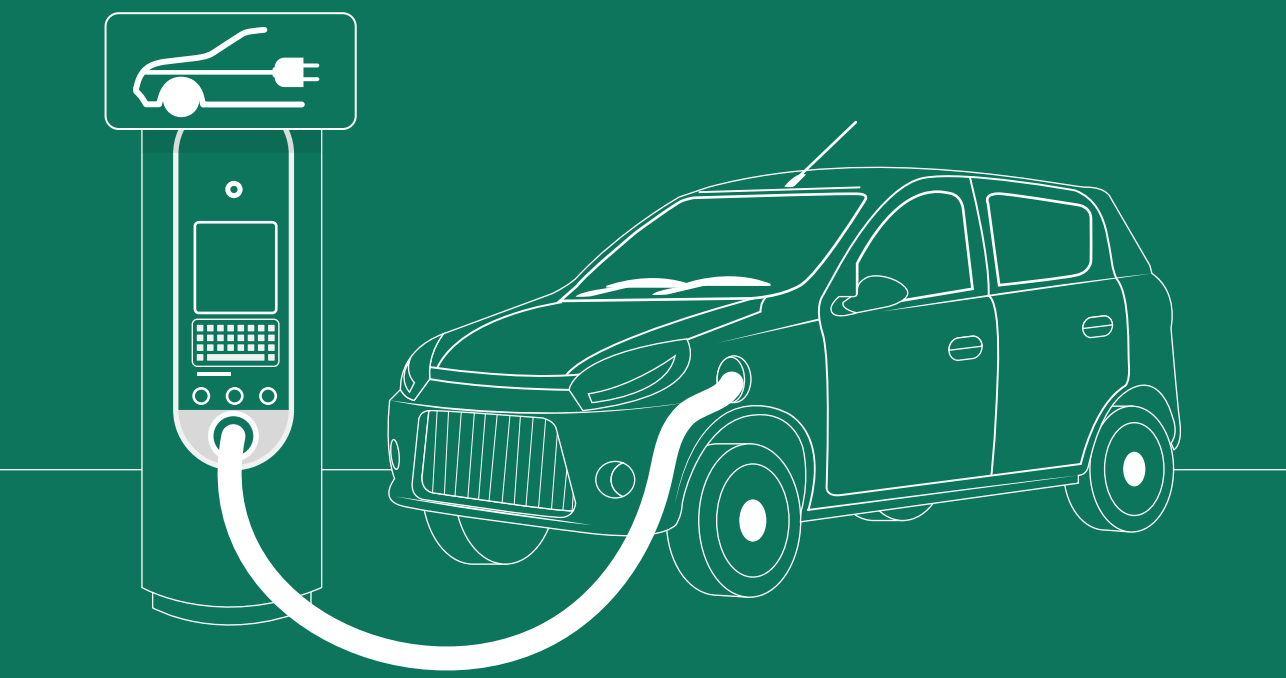
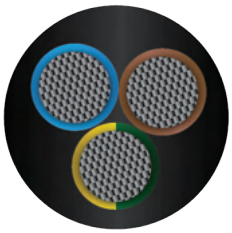
ELECTRIC VEHICLE CABLES



Electric Vehicle Charging Cable

High Temperature V-105 Rubber
ROHS III & REACH compliant



EV

• Applications

Flexible PVC Rubber for electric vehicle charging station and hamessing.

• Design Construction

Conductors Flexible stranded tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation N-RUBBER S-20 Thermoplastic V105.

Sheath N-RUBBER S-20 Thermoplastic V105 Flame Retardant, Water, Oil, Sunlight and Ozone Resistant. Excellent abrasion resistance.

• Insulation Color

To customer specification.

• Sheath Colour

Black

• Standards

IEC 60228, IEC 60502-1, IEC 660227-5 IEC57
IEC 60332-1, IEC 60332-3-22 CAT A
AS/NZS 1125, AS/NZS 3808
*Insulation and sheath are tested to UL 1581 and CSA C22.210

• Operating Temp

-25°C to +105°C

Product Code	Number of Cores X Cross-Section Area (mm2)	Nominal Overall Diameter (mm)	Approx Weight (kg/km)	Nominal Voltage	Power/ Current	Power System	Application
EV-3C1.5-TXP-E3BK	3 x 1.5 + 1 x .75 signal	8.8	106	450/750V ac	3kW/13A	1-phase	Domestic Charging Station
EV-3C2.5-TXP-E3BK	3 x 2.5 + 1 x .75 signal	10.7	158	450/750V ac	4.6kW/20A	1-phase	Domestic/Public Charging Station
EV-5C2.5-TXP-E3BK	5 x 2.5 + 1 x .75 signal	13.2	241	450/750V ac	13.8kW/20A	3-phase	Domestic/Public Charging Station
EV-3C6-TXP-E3BK	3 x 6 + 1 x .75 signal	13.8	304	450/750V ac	7.4kW/32A	1-phase	Domestic/Public Charging Station
EV-5C6-TXP-E3BK	5 x 6 + 1 x .75 signal	17.3	475	450/750V ac	22kW/32A	3-phase	Domestic/Public Charging Station
EV-3C16-TXP-E3BK	3 x 16 + 1 x .75 signal	19.5	654	450/750V ac	14.5kW/63A	1-phase	Domestic/Public Charging Station
EV-5C16-TXP-E3BK	5 x 16 + 1 x .75 signal	23.1	1014	450/750V ac	43.5kW/63A	3-phase	Domestic/Public Charging Station
EV-3C50-TXP-E3BK	2 x 50 + 1 x 25 + 1 x .75 signal	30.4	1531	1000V dc	150kW/150A	dc	Public Charging Station

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

WIND FARM CABLES

Power & Control

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

VW

• Applications

For Nacelle & Tower power and control circuit

• Design Construction

Conductors Flexible stranded 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

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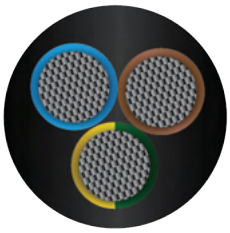
Power and Control

0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant



VI

• Applications

For Nacelle & Tower power and control circuit.

• Design Construction

Conductors Flexible stranded 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 SHF2 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

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60092-350, IEC 60092-353, IEC 60332-1, IEC 60332-3-22 CAT A, IEC 60754-1&2*, IEC 61034-1&2* (*For M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Approvals

International Type Approvals available upon requiest.

• Operating Temp

-40°C to +110°C

• Voltage Level

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

Number of Conductors (C) & Cross Section Area (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
1C 6	27	3.1	4.6	6.7	49	81
1C 10	31	4.1	5.6	7.7	69	124
1C 16	36	5.1	6.7	9.0	91	182
1C 25	43	6.4	8.4	10.7	121	276
1C 35	49	7.8	9.8	12.3	151	378
1C 50	56	9.2	11.5	14.0	191	528
1C 70	64	10.8	13.3	16.0	241	714
1C 95	73	12.8	15.3	18.3	290	960
1C 120	82	14.5	17.3	20.4	346	1190
1C 150	91	16.3	19.5	22.9	400	1484
1C 185	101	18.0	21.7	25.2	459	1829
1C 240	112	20.3	24.2	28.0	553	2340
1C 300	125	22.5	27.2	31.1	637	2887
1C 400	139	26.0	30.7	34.8	764	3786
1C 500	155	29.2	34.4	38.7	884	4770
1C 630	173	32.8	38.4	43.2	1030	5990

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

VI

Power and Control

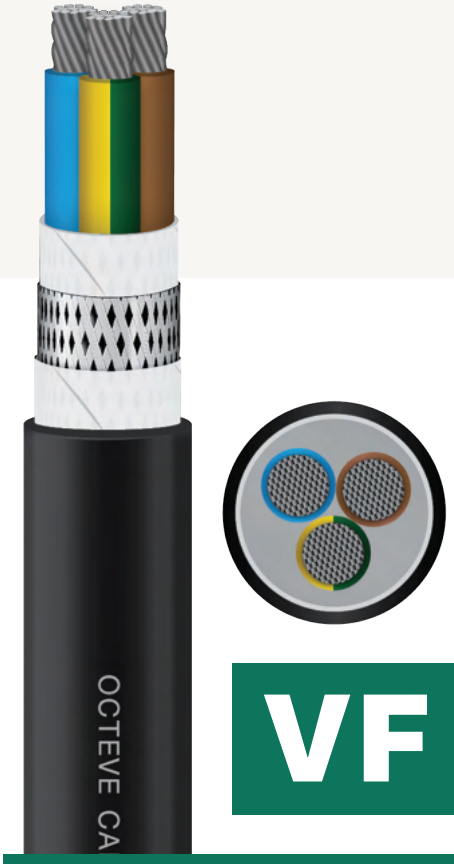
0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant

Number of Conductors (C) & Cross Section Area (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C 1.5	32	1.5	8.1	24	75
2C 2.5	38	2.1	9.5	32	108
2C 4	41	2.5	10.3	43	143
2C 6	47	3.1	11.8	55	196
2C 10	55	4.1	13.8	78	298
2C 16	64	5.2	16.0	103	432
2C 25	79	6.4	19.8	136	670
2C 35	91	7.8	22.7	169	909
3C 1.5	35	1.5	8.7	24	95
3C 2.5	40	2.1	10.1	32	135
3C 4	44	2.5	10.9	43	184
3C 6	50	3.1	12.5	55	255
3C 10	59	4.1	14.9	78	398
3C 16	69	5.2	17.2	103	582
3C 25	84	6.4	21.0	136	900
3C 35	97	7.8	24.2	169	1225
3C 50	111	9.2	27.7	213	1733
3C 70	128	10.8	32.0	269	2332
3C 95	147	12.8	36.7	322	3142
3C 120	164	14.5	41.0	381	3897
3C 150	185	16.3	46.2	438	4952
3C 185	205	18.0	51.2	499	6022
3C 240	228	20.3	57.0	596	7372
4C 1.5	38	1.5	9.5	20	116
4C 2.5	44	2.1	11.0	27	167
4C 4	49	2.5	12.1	36	234
4C 6	54	3.1	13.6	46	320
4C 10	65	4.1	16.3	66	505
4C 16	75	5.2	18.9	87	742
4C 25	93	6.4	23.3	116	1157
4C 35	107	7.8	26.8	144	1578
4C 50	124	9.2	31.0	182	2247
4C 70	142	10.8	35.6	230	3012
4C 95	163	12.8	40.8	275	4061
4C 120	183	14.5	45.8	327	5049
4C 150	206	16.3	51.5	375	6414
4C 185	228	18.0	57.0	428	7797
5C 1.5	42	1.5	10.4	20	148
5C 2.5	49	2.1	12.2	27	215
5C 4	53	2.5	13.3	36	294
5C 6	61	3.1	15.2	46	407
5C 10	73	4.1	18.2	66	637
5C 16	84	5.2	21.1	87	933
5C 25	104	6.4	26.1	116	1450
5C 35	120	7.8	30.0	144	1973
5C 50	139	9.2	34.7	182	2805
5C 70	160	10.8	40.0	230	3769
5C 95	183	12.8	45.8	275	5072
5C 120	206	14.5	51.4	327	6300
5C 150	231	16.3	57.8	375	7994
5C 185	256	18.0	64.1	428	9728
5C 240	285	20.3	71.3	511	11888
7C 1.5	46	1.5	11.5	12.1	175
10C 1.5	58	1.5	14.5	10.6	248
12C 1.5	61	1.5	15.1	9.9	289
14C 1.5	64	1.5	15.9	9.4	330
16C 1.5	68	1.5	17.0	8.9	378
19C 1.5	72	1.5	17.9	8.4	439
24C 1.5	84	1.5	21.0	7.7	555
27C 1.5	86	1.5	21.6	7.4	615
33C 1.5	94	1.5	23.4	6.9	746
37C 1.5	97	1.5	24.3	6.7	827
7C 2.5	53	2.1	13.3	16.0	254
10C 2.5	69	2.1	17.2	13.9	366
12C 2.5	72	2.1	17.9	13.0	428
14C 2.5	75	2.1	18.8	12.3	492
16C 2.5	80	2.1	20.1	11.8	561
19C 2.5	85	2.1	21.2	11.1	655
24C 2.5	99	2.1	24.8	10.2	827
27C 2.5	103	2.1	25.7	9.8	927
33C 2.5	111	2.1	27.7	9.1	1116
37C 2.5	116	2.1	29.0	8.8	1248

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Braided Power & Control

0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant



VF

• Applications

For Nacelle & Tower power and control circuit.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	Halogen Free Crosslinked Rubber
Separator	Polypropylene Tape
Braid	Tinned Copper Wire (90%) or Glavanised Steel Wire (90%)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Water, Oil, Sunlight and Ozone Resistant.

• Sheath Options

M	Type SHF2 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

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60092-350, IEC 60092-353, IEC 60332-1, IEC 60332-3-22 CAT A, IEC 60754-1&2*, IEC 61034-1&2* (*For M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Approvals

International Type Approvals available upon requiest.

• Operating Temp

-40°C to +110°C

• Voltage Level

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

Number of Conductors (C) & Cross Section Area (mm²)		Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
1C	6	54	3.1	4.6	5.2	6.7	9.0	49	143
1C	10	60	4.1	5.6	6.2	7.7	10.0	69	195
1C	16	66	5.2	6.7	7.2	8.7	11.0	91	260
1C	25	78	6.4	8.4	8.9	10.4	12.9	121	374
1C	35	87	7.8	9.8	10.0	11.9	14.6	151	488
1C	50	97	9.2	11.5	11.6	13.5	16.2	191	658
1C	70	110	10.8	13.3	13.6	15.3	18.3	241	857
1C	95	123	12.8	15.3	15.3	17.4	20.5	290	1122
1C	120	136	14.5	17.3	17.2	19.3	22.7	346	1370
1C	150	149	16.3	19.5	18.7	21.6	24.9	400	1703
1C	185	164	18.0	21.7	21.0	23.7	27.3	459	2043
1C	240	180	20.3	24.2	23.2	26.3	30.0	553	2469
1C	300	196	22.5	26.7	26.0	28.7	32.7	637	3141
1C	400	222	26.0	30.7	29.4	32.7	37.1	764	4093
1C	500	246	29.2	34.4	32.6	36.4	41.0	884	5111
1C	630	273	32.8	38.4	35.9	40.5	45.5	1030	6369

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

VF

Braided Power & Control

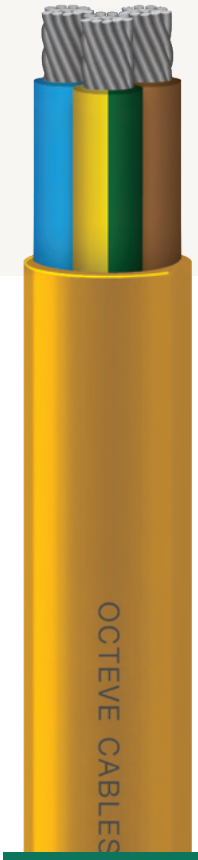
0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant

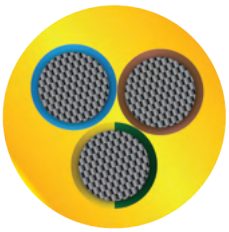
Number of Conductors (C) & Cross Section Area (mm²)		Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal Overall Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	62	1.5	6.7	8.0	10.3	24	138
2C	2.5	71	2.1	7.6	9.3	11.8	32	200
2C	4	75	2.5	8.6	10.1	12.6	43	244
2C	6	83	3.1	9.7	11.3	13.8	55	305
2C	10	96	4.1	11.6	13.3	16.0	78	431
2C	16	109	5.2	13.5	15.3	18.2	103	583
2C	25	131	6.4	16.8	18.7	21.8	136	848
2C	35	148	7.8	18.9	21.4	24.7	169	1111
3C	1.5	65	1.5	7.1	8.5	10.8	24	178
3C	2.5	74	2.1	8.1	9.8	12.3	32	228
3C	4	79	2.5	9.2	10.7	13.2	43	284
3C	6	88	3.1	10.4	12.0	14.7	55	368
3C	10	103	4.1	12.4	14.2	17.1	78	531
3C	16	115	5.2	14.5	16.3	19.2	103	727
3C	25	140	6.4	18.0	19.9	23.3	136	1081
3C	35	159	7.8	20.3	22.9	26.4	169	1433
3C	50	180	9.2	23.7	26.2	30.0	213	2000
3C	70	206	10.8	27.9	30.1	34.3	269	2603
3C	95	234	12.8	31.5	34.4	39.0	322	3427
3C	120	260	14.5	35.3	38.5	43.3	381	4207
3C	150	291	16.3	38.6	43.3	48.5	438	5287
3C	185	320	18.0	43.3	47.8	53.4	499	6381
3C	240	355	20.3	48.0	53.2	59.2	596	7753
4C	1.5	70	1.5	7.8	9.2	11.7	20	203
4C	2.5	79	2.1	8.9	10.7	13.2	27	267
4C	4	86	2.5	10.1	11.7	14.4	36	343
4C	6	95	3.1	11.5	13.1	15.9	46	443
4C	10	111	4.1	13.8	15.6	18.5	66	649
4C	16	127	5.2	16.1	18.0	21.1	87	907
4C	25	154	6.4	20.0	22.1	25.6	116	1357
4C	35	175	7.8	22.6	25.4	29.1	144	1805
4C	50	198	9.2	26.4	29.1	33.1	182	2515
4C	70	227	10.8	31.1	33.5	37.8	230	3302
4C	95	258	12.8	35.1	38.3	43.0	275	4385
4C	120	288	14.5	39.4	42.8	48.0	327	5405
4C	150	323	16.3	43.1	48.2	53.8	375	6804
4C	185	355	18.0	48.4	53.2	59.2	428	8217
5C	1.5	76	1.5	8.7	10.1	12.6	20	236
5C	2.5	87	2.1	9.9	11.8	14.5	27	317
5C	4	94	2.5	11.3	12.9	15.6	36	406
5C	6	105	3.1	12.8	14.5	17.5	46	534
5C	10	122	4.1	15.4	17.3	20.4	66	788
5C	16	140	5.2	18.0	20.0	23.3	87	1107
5C	25	170	6.4	22.4	24.6	28.3	116	1664
5C	35	193	7.8	25.4	28.3	32.2	144	2245
5C	50	221	9.2	29.6	32.6	36.9	182	3089
7C	1.5	81	1.5	9.6	11.0	13.5	12.1	260
10C	1.5	100	1.5	12.4	13.9	16.6	10.6	355
12C	1.5	104	1.5	13.0	14.5	17.4	9.9	406
14C	1.5	109	1.5	13.7	15.2	18.1	9.4	454
16C	1.5	114	1.5	14.6	16.1	19.0	8.9	503
19C	1.5	121	1.5	15.5	17.0	20.1	8.4	577
24C	1.5	139	1.5	18.2	19.9	23.2	7.7	716
27C	1.5	143	1.5	18.8	20.5	23.8	7.4	781
33C	1.5	154	1.5	20.4	22.1	25.7	6.9	925
37C	1.5	159	1.5	21.3	23.0	26.6	6.7	1014
7C	2.5	93	2.1	10.9	12.9	15.6	16.0	358
10C	2.5	115	2.1	14.1	16.3	19.2	13.9	493
12C	2.5	121	2.1	14.8	17.0	20.1	13.0	566
14C	2.5	126	2.1	15.7	17.9	21.0	12.3	637
16C	2.5	133	2.1	16.7	19.0	22.1	11.8	709
19C	2.5	140	2.1	17.7	20.1	23.4	11.1	818
24C	2.5	162	2.1	20.9	23.5	27.0	10.2	1084
27C	2.5	168	2.1	21.6	24.2	28.0	9.8	1186
33C	2.5	180	2.1	23.4	26.2	30.0	9.7	1379
37C	2.5	187	2.1	24.4	27.3	31.2	8.8	1515

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Flexible/Temporary Power

0.6/1kV 110°C N-RUBBER Flame Retardant
ROHS III & REACH compliant





ES

• Applications

For Nacelle & Tower power and control circuit.

• Design Construction

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

Insulation Halogen Free Crosslinked Rubber

Sheath Type ST 2 to IEC 60092-360 & IEC 60502-1 Thermoplastic N-RUBBER V-105 PVC. Flame Retardant, Water, Oil, Sunlight and Ozone Resistant. Submersible to 1000 meters.

• Insulation Color

To customer specification

• Sheath Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60332-1
AS/NZS 1125, AS/NZS 5000.1,
AS/NZS 1660.5.6, AS/NZS 3808
AS/NZS 3008.1, AS/NZS 3000

• Approvals

International Type Approvals available upon requiest.

• 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)	Nominal Conductor Diameter (mm)	Minimum Overall Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
3C 1.5	1.5	9.8	10.3	39	30	136
3C 2.5	2.0	11.0	11.5	44	40	182
3C 4	2.4	12.1	12.7	48	53	232
3C 6	3.0	13.7	14.4	55	67	316
3C 10	3.9	17.9	18.8	72	94	566
3C 16	4.9	20.5	21.5	82	124	788
3C 25	6.1	24.7	26.0	99	163	1157

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

ES

Flexible/Temporary Power

0.6/1kV 110°C N-RUBBER Flame Retardant
ROHS III & REACH compliant

Number of Conductors (C) & Cross Section Area (mm²)		Nominal Conductor Diameter (mm)	Minimum Overall Diameter (mm)	Maximum Overall Diameter (mm)	Minimum Bending Radius (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
4C	1.5	1.5	10.8	111.3	43	26	168
4C	2.5	2.0	12.1	12.7	48	34	227
4C	4	2.4	13.5	14.2	54	45	300
4C	6	3.0	15.0	15.8	60	57	398
4C	10	3.9	19.5	20.5	78	80	700
4C	16	4.9	22.5	23.7	90	106	998
4C	25	6.1	27.2	28.5	109	140	1466
4C	35	7.3	30.9	32.5	124	173	1988
4C	50	8.8	36.0	37.8	144	218	2757
4C	70	10.4	41.2	43.3	165	273	3702
4C	95	12.1	46.0	48.3	184	327	4765
5C	1.5	1.5	11.8	12.4	47	26	203
5C	2.5	2.0	13.4	14.1	54	34	283
5C	4	2.4	14.8	15.5	59	45	362
5C	6	3.0	16.7	17.5	67	57	492
5C	10	3.9	21.4	22.5	86	80	852
5C	16	4.9	24.7	25.9	99	106	1215
5C	25	6.1	30.0	31.5	120	140	1804
5C	35	7.3	33.9	35.6	136	173	3422
5C	50	8.8	39.8	41.8	159	218	3410
5C	70	10.4	45.6	47.8	182	273	4570
5C	95	12.1	51.0	53.6	204	327	5909
5C	120	13.6	56.8	59.6	227	387	7373
5C	150	15.5	64.5	67.7	258	444	9482
5C	185	17.1	71.1	74.6	284	505	11446

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Switchboard & Panel Wire

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

EA

• Applications

For Nacelle & Tower power and control circuit.

• Design Construction

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

Insulation Halogen Free Crosslinked Polyolefin (XLPO)

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60992-350,
IEC 60092 353, IEC 60332-1
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1,
IEEE 45, IEEE 1580, IEEE 1202

• Operating Temp

-40°C to +110°C

• Voltage Level

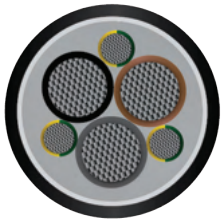
600/1000 Volts, ac
1500/1500 Volts, dc

Number of Conductors (C) & Cross Section Area (mm^2)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
1C 0.75	11	1.2	2.6	13	13
1C 1.0	11	1.3	2.7	16	15
1C 1.5	12	1.5	2.9	20	20
1C 2.5	14	2.1	3.5	27	30
1C 4	16	2.5	3.9	36	44
1C 6	19	3.1	4.5	46	63
1C 10	23	4.1	5.6	64	103
1C 16	27	5.2	6.6	85	155
1C 25	34	6.4	8.3	114	243
1C 35	39	7.8	9.7	141	335
1C 50	46	9.2	11.3	178	483
1C 70	53	10.8	13.1	225	659
1C 95	61	12.8	15.2	271	891
1C 120	69	14.5	17.1	322	1109
1C 150	78	16.3	19.3	373	1415
1C 185	87	18.0	21.4	428	1725
1C 240	97	20.3	23.9	515	2218
1C 300	107	22.5	26.4	594	2723
1C 400	123	26.0	30.3	715	3620
1C 500	137	29.2	33.9	830	4579
1C 630	154	32.8	38.0	969	5759

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Braided VFD/VSD Power

0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant



VV

• Applications

For Nacelle & Tower power and control circuit.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	Halogen Free Crosslinked Rubber.
Bedding	SHF2 MUD or ST2 PVC V-105
Braid	Tinned Copper Wire (90%) or Galvanised Steel Wire (90%)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Water, Oil Sunlight and Ozone Resistant.

• Sheath Options

M	Type SHF2 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 60502-1, IEC 60992-350,
IEC 60092 353, IEC 60332-1, IEC 60332-3-22
CAT A, IEC 60754-1&2*, IEC 61034-1&2*
(*For M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Color

To customer specification

• Operating Temp

-40°C to +110°C

• Voltage Level

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

Number of Conductors (C) & Cross Section Area (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
3C 10 + 3C 1.5 E	108	4.1	14.7	17.9	78	544
3C 16 + 3C 2.5 E	113	5.2	15.6	18.8	103	743
3C 25 + 3C 4 E	137	6.4	19.2	22.9	136	1109
3C 35 + 3C 6 E	156	7.8	22.0	26.0	169	1489
3C 50 + 3C 10 E	177	9.2	25.3	29.6	213	2107
3C 70 + 3C 10 E	203	10.8	29.1	33.9	269	2717
3C 95 + 3C 16 E	230	12.8	33.4	38.4	322	3651
3C 120 + 3C 16 E	257	14.5	37.4	42.9	381	4409
3C 150 + 3C 25 E	288	16.3	42.0	48.0	438	5687
3C 185 + 3C 25 E	318	18.0	46.5	53.0	499	6725
3C 240 + 3C 35 E	353	20.3	51.7	58.8	596	8625
3C 300 + 3C 50 E	386	22.5	56.8	64.4	682	10993
3C 400 + 3C 50 E	440	26.0	65.1	73.4	811	13679

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Braid Armoured Power & Control

0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant

VB

• Applications

For Nacelle & Tower power and control circuit.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	Halogen Free Crosslinked Rubber
Bedding	Halogen Free Crosslinked Rubber
Braid	Tinned Copper Wire (90%) or Glavanised Steel Wire (90%)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Water, Oil, Sunlight and Ozone Resistant.

• Sheath Options

M	Type SHF2 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

• Insulation Color

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60992-350,
IEC 60092 353, IEC 60332-1, IEC 60332-3-22
CAT A, IEC 60754-1&2*, IEC 61034-1&2*
(*For M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Approvals

International Type Approvals available upon requiest.

• Operating Temp

-40°C to +110°C

• Voltage Level

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

Number of Conductors (C) & Cross Section Area (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
1C 10	70	4.1	7.9	9.2	11.7	69	228
1C 16	76	5.1	9.0	10.2	12.7	91	294
1C 25	89	6.4	10.9	12.1	14.8	121	418
1C 35	98	7.8	12.3	13.6	16.3	151	532
1C 50	110	9.2	14.2	15.4	18.3	191	717
1C 70	122	10.8	16.0	17.2	20.4	241	922
1C 95	137	12.8	18.3	19.5	22.8	290	1201
1C 120	149	14.5	20.2	21.4	24.8	346	1449
1C 150	165	16.3	22.7	23.9	27.4	400	1804
1C 185	180	18.0	25.0	26.2	30.0	459	2163
1C 240	198	20.3	27.8	29.0	32.9	553	2719
1C 300	219	22.5	30.2	32.2	36.5	637	3396
1C 400	242	26.0	34.6	35.8	40.4	764	4287
1C 500	268	29.2	38.5	39.7	44.7	884	5349
1C 630	295	32.8	42.8	44.0	49.2	1030	6632

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

VB

Braid Armoured Power & Control

0.6/1kV 110°C LSHF or N-RUBBER Flame Retardant
ROHS III & REACH compliant

Number of Conductors (C) & Cross Section Area (mm²)		Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Insulation (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	72	1.5	8.3	9.5	12.0	24	182
2C	2.5	79	2.1	9.5	10.7	13.2	32	226
2C	4	87	2.5	10.5	11.8	14.5	43	280
2C	6	94	3.1	11.8	13.0	15.7	55	344
2C	10	109	4.1	14.0	15.2	18.1	78	481
2C	16	122	5.1	16.0	17.2	20.3	103	639
2C	25	145	6.4	19.6	20.8	24.1	136	922
2C	35	164	7.8	22.5	23.7	27.3	169	1204
3C	1.5	75	1.5	8.7	10.0	12.5	24	205
3C	2.5	83	2.1	10.1	11.3	13.8	32	259
3C	4	90	2.5	11.1	12.4	15.1	43	328
3C	6	98	3.1	12.5	13.7	16.4	55	410
3C	10	114	4.1	14.9	16.1	19.0	78	587
3C	16	128	5.1	17.0	18.2	21.3	103	797
3C	25	155	6.4	21.0	22.3	25.8	136	1182
3C	35	175	7.8	24.2	25.4	29.1	169	1556
3C	50	197	9.2	27.7	29.0	32.9	213	2119
3C	70	224	10.8	31.8	33.0	37.4	269	2784
3C	95	254	12.8	36.3	37.6	42.3	322	3668
3C	120	281	14.5	40.6	41.9	46.8	381	4495
3C	150	314	16.3	45.8	47.0	52.4	438	5652
3C	185	345	18.0	50.5	51.8	57.6	499	6810
3C	240	384	20.3	56.3	57.6	64.0	596	8300
4C	1.5	79	1.5	9.5	10.7	13.2	20	234
4C	2.5	91	2.1	11.2	12.4	15.1	27	311
4C	4	96	2.5	12.1	13.4	16.1	36	386
4C	6	106	3.1	13.6	14.8	17.7	46	494
4C	10	124	4.1	16.3	17.5	20.6	66	715
4C	16	140	5.1	18.9	20.1	23.4	87	990
4C	25	169	6.4	23.1	24.4	28.1	116	1466
4C	35	191	7.8	26.6	27.9	31.8	144	1940
4C	50	220	9.2	30.6	32.2	36.6	182	2753
4C	70	247	10.8	35.4	36.6	41.1	230	3520
4C	95	279	12.8	40.4	41.6	46.6	275	4650
4C	120	312	14.5	45.4	46.6	52.0	327	5737
4C	150	348	16.3	50.9	52.1	57.9	375	7199
4C	185	384	18.0	56.4	57.6	64.0	428	8716
5C	1.5	87	1.5	10.6	11.8	14.5	20	277
5C	2.5	97	2.1	12.2	13.5	16.2	27	358
5C	4	105	2.5	13.3	14.6	17.5	36	454
5C	6	116	3.1	15.2	16.4	19.3	46	587
5C	10	136	4.1	18.2	19.4	22.7	66	862
5C	16	155	5.1	21.1	22.3	25.8	87	1197
5C	25	186	6.4	25.9	27.1	31.0	116	1779
5C	35	211	7.8	29.8	31.0	35.2	144	2358
5C	50	242	9.2	34.5	35.7	40.3	182	3268
5C	70	275	10.8	39.6	40.8	45.8	230	4310
5C	95	312	12.8	45.4	46.6	52.0	275	5716
5C	120	347	14.5	50.8	52.0	57.8	327	7032
5C	150	389	16.3	57.2	58.4	64.8	375	8868
5C	185	428	18.0	63.3	64.5	71.4	428	10710
5C	240	475	20.3	70.5	71.7	79.2	511	13042
7C	1.5	93	1.5	11.5	12.7	15.4	12.1	319
10C	1.5	112	1.5	14.5	15.8	18.7	10.6	433
12C	1.5	116	1.5	15.1	16.4	19.3	9.9	481
14C	1.5	121	1.5	15.9	17.1	20.2	9.4	537
16C	1.5	127	1.5	16.8	18.0	21.1	8.9	590
19C	1.5	133	1.5	17.9	19.1	22.2	8.4	670
21C	1.5	141	1.5	18.9	20.2	23.5	8.1	733
24C	1.5	154	1.5	21.0	22.2	25.7	7.7	837
27C	1.5	158	1.5	21.6	22.8	26.3	7.4	905
33C	1.5	169	1.5	23.2	24.4	28.2	6.9	1057
37C	1.5	176	1.5	24.3	25.5	29.3	6.7	1160
7C	2.5	105	2.1	13.3	14.6	17.5	16.0	425
10C	2.5	128	2.1	17.0	18.2	21.3	13.9	581
12C	2.5	133	2.1	17.9	19.1	22.2	13.0	659
14C	2.5	140	2.1	18.8	20.0	23.3	12.3	740
16C	2.5	147	2.1	19.9	21.1	24.4	11.8	817
19C	2.5	156	2.1	21.2	22.4	25.9	11.1	940
21C	2.5	163	2.1	22.4	23.7	27.2	10.5	1021
24C	2.5	179	2.1	24.8	26.0	29.8	10.2	1166
27C	2.5	183	2.1	25.5	26.7	30.5	9.8	1268
33C	2.5	197	2.1	27.7	28.9	32.9	9.1	1501
37C	2.5	205	2.1	28.8	30.0	34.2	8.8	1650

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RI/U (c) Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

VS

• Applications

Flexible Instrumentations cables suitable for all wind farm applications where RFI protection is required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Separator	Polypropylene Tape
Screen	Aluminium Laminate Tape with Drain Wire
Separator	Polypropylene Tape
Sheath	Flame Retardant, Sunlight and Ozone Resistant.

• Sheath Options

L	Type SHF1 to IEC 60092-360, Thermoplastic LSHF
F	Type SHF2 to IEC 60092-360, Thermoset, Oil Resistant LSHF
M	Type SHF2 MUD to IEC 60092-360 & NEK TS 606 Thermoset, Oil and Mud Resistant LSHF
P	Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
IEC 60092-353 (Option for ABS 0.6/1kV)
AS/NZS 1125, AS/NZS 5000.3
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Colour

To customer specification

• Sheath Colour

To customer specification
*Blue (for Intrinsically Safe circuit)

• Approvals

International Type Approvals available upon request.

• Operating Temp

-40°C to +110°C

• Voltage Level

150/250 Volts (standard)
600/1000 Volts (option for ABS)

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	0.5	0.9	7.9	32	69
2p	0.5*	0.9	8.9	36	87
4p	0.5	0.9	13.2	53	132
8p	0.5	0.9	16.5	66	218
10p	0.5	0.9	18.1	72	265
12p	0.5	0.9	19.5	78	304
16p	0.5	0.9	21.5	86	387
20p	0.5	0.9	22.6	90	464
24p	0.5	0.9	23.8	95	533
27p	0.5	0.9	24.7	99	586
36p	0.5	0.9	28.7	115	774

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VS

RI/U (c) Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

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 0.75	1.1	8.3	33	78
2p 0.75*	1.1	9.4	38	99
4p 0.75	1.1	13.6	55	153
8p 0.75	1.1	17.7	71	268
10p 0.75	1.1	19.2	77	316
12p 0.75	1.1	20.9	84	375
16p 0.75	1.1	23.0	92	478
20p 0.75	1.1	24.2	97	565
24p 0.75	1.1	25.7	103	664
27p 0.75	1.1	26.6	106	731
36p 0.75	1.1	30.6	122	951
1p 1.0	1.3	8.6	34	87
2p 1.0*	1.3	9.7	39	112
4p 1.0	1.3	14.8	59	184
8p 1.0	1.3	18.7	75	311
10p 1.0	1.3	20.3	81	378
12p 1.0	1.3	21.9	88	438
16p 1.0	1.3	24.3	97	560
20p 1.0	1.3	25.7	103	676
24p 1.0	1.3	27.0	108	782
27p 1.0	1.3	28.0	112	864
36p 1.0	1.3	32.4	130	1140
1p 1.5	1.5	9.0	36	103
2p 1.5*	1.5	10.7	43	141
4p 1.5	1.5	16.5	66	232
8p 1.5	1.5	21.0	84	410
10p 1.5	1.5	22.8	91	499
12p 1.5	1.5	24.7	99	581
16p 1.5	1.5	27.3	109	744
20p 1.5	1.5	28.9	116	903
24p 1.5	1.5	30.4	122	1049
27p 1.5	1.5	31.7	127	1175
36p 1.5	1.5	36.7	147	1550
1p 2.5	2.0	9.3	37	126
2p 2.5*	2.0	12.0	48	196
4p 2.5	2.0	18.6	74	327
8p 2.5	2.0	24.1	97	590
10p 2.5	2.0	26.0	104	717
12p 2.5	2.0	28.4	114	851
16p 2.5	2.0	31.3	125	1096
20p 2.5	2.0	32.7	131	1318
24p 2.5	2.0	34.7	139	1556
27p 2.5	2.0	36.1	144	1727
36p 2.5	2.0	41.7	167	2282

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	8.9	36	89
3t 0.75	1.1	13.1	53	160
4t 0.75	1.1	14.4	58	202
7t 0.75	1.1	17.4	69	315
1t 1.5	1.5	9.9	40	122
3t 1.5	1.5	15.4	61	242
4t 1.5	1.5	16.8	67	302
7t 1.5	1.5	20.5	82	492

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RFOI/U (c) RFCI/U (c) Braided
Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

VO

• Applications

Flexible Instrumentations cables suitable for all wind farm applications where mechanical, RFI and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Screen	Aluminium Laminate Tape with Drain Wire
Separator	Polypropylene Tape
Braid	Tinned Copper Wire (90% coverage) Galvanised Steel Wire (90% coverage)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Sunlight and Ozone Resistant.

• Sheath Options

L	Type SHF1 to IEC 60092-360, Thermoplastic LSHF
F	Type SHF2 to IEC 60092-360, Thermoset, Oil Resistant LSHF
M	Type SHF2 MUD to IEC 60092-360 & NEK TS 606 Thermoset, Oil and Mud Resistant LSHF
P	Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
IEC 60092-353 (Option for ABS 0.6/1kV)
AS/NZS 1125, AS/NZS 5000.3
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Colour
To customer specification

• Sheath Colour
To customer specification
*Blue (for Intrinsically Safe circuit)

• Approvals
International Type Approvals available upon request.

• Operating Temp
-40°C to +110°C

• Voltage Level
150/250 Volts (standard)
600/1000 Volts (option for ABS)

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.5	0.9	6.1	6.5	9.1	55	116
2p 0.5*	0.9	6.1	7.3	9.9	59	132
4p 0.5	0.9	10.1	11.2	14.0	84	12
8p 0.5	0.9	13.1	14.3	17.5	105	303
10p 0.5	0.9	15.2	15.6	18.9	113	348
12p 0.5	0.9	16.2	17.0	20.5	123	404
16p 0.5	0.9	18.2	18.8	22.3	134	487
20p 0.5	0.9	19.2	19.8	23.5	141	571
24p 0.5	0.9	20.2	21.1	24.9	150	649
27p 0.5	0.9	21.2	22.2	26.3	158	721
36p 0.5	0.9	24.2	25.1	29.5	177	910

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VO

RFOI/U (c) RFCI/U (c) Braided
Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	6.1	6.8	9.5	57	126
2p 0.75*	1.1	7.1	7.7	10.4	62	147
4p 0.75	1.1	11.1	11.7	14.6	88	221
8p 0.75	1.1	14.1	15.4	18.6	112	350
10p 0.75	1.1	16.2	16.7	20.2	121	414
12p 0.75	1.1	17.2	18.2	21.7	130	473
16p 0.75	1.1	19.2	20.2	23.	144	586
20p 0.75	1.1	20.2	21.2	25.0	150	679
24p 0.75	1.1	22.2	22.7	26.7	160	789
27p 0.75	1.1	23.2	23.9	27.9	167	865
36p 0.75	1.1	26.3	27.1	31.6	190	1113
1p 1.0	1.3	6.1	7.1	.8	59	138
2p 1.0*	1.3	7.1	8.1	10.5	63	159
4p 1.0	1.3	12.1	12.6	15.7	94	251
8p 1.0	1.3	15.2	16.3	19.5	117	398
10p 1.0	1.3	17.2	17.7	21.1	127	473
12p 1.0	1.3	18.2	1.3	23.0	138	551
16p 1.0	1.3	20.2	21.3	25.1	151	675
20p 1.0	1.3	21.2	22.4	26.5	159	797
24p 1.0	1.3	23.2	24.0	28.2	169	927
27p 1.0	1.3	24.2	25.4	29.6	178	1018
36p 1.0	1.3	28.3	28.7	33.2	199	1297
1p 1.5	1.5	7.1	7.9	10.5	63	162
2p 1.5*	1.5	8.1	8.9	11.6	70	17
4p 1.5	1.5	13.1	14.1	17.4	104	314
8p 1.5	1.5	17.2	18.3	21.8	131	508
10p 1.5	1.5	19.2	19.9	23.7	142	606
12p 1.5	1.5	21.2	21.8	25.8	155	709
16p 1.5	1.5	23.2	24.1	28.4	170	887
20p 1.5	1.5	24.2	25.4	29.7	178	1039
24p 1.5	1.5	26.3	27.2	31.7	190	1214
27p 1.5	1.5	28.3	28.7	33.1	199	1336
36p 1.5	1.5	31.3	32.5	37.5	225	1728
1p 2.5	2.0	8.1	8.7	11.2	67	195
2p 2.5*	2.0	9.1	10.0	12.7	76	252
4p 2.5	2.0	15.2	16.1	19.3	116	412
8p 2.5	2.0	20.2	20.8	24.6	148	700
10p 2.5	2.0	22.2	22.7	26.8	161	839
12p 2.5	2.0	24.2	24.8	29.2	175	986
16p 2.5	2.0	26.3	27.6	32.1	193	1245
20p 2.5	2.0	28.3	29.0	33.6	202	1477
24p 2.5	2.0	30.3	31.1	35.9	215	1730
27p 2.5	2.0	32.3	32.7	37.8	227	1928
36p 2.5	2.0	36.4	37.2	42.7	256	2506

Number of Triads (t) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1t 0.75	1.1	6.4	7.2	9.9	59	135
3t 0.75	1.1	10.3	11.1	13.9	84	236
4t 0.75	1.1	11.4	12.2	15.3	92	291
7t 0.75	1.1	14.1	14.9	18.3	110	436
1t 1.5	1.5	7.5	8.3	11.0	66	175
3t 1.5	1.5	12.4	13.2	16.2	97	335
4t 1.5	1.5	13.7	14.5	17.8	107	416
7t 1.5	1.5	17.1	17.9	21.3	128	640

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RI/U (i&c) Individual & Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

VC

• Applications

Flexible Instrumentations cables suitable for all wind farm applications.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Screen	Individual & Collective Aluminium Laminate Tape with Drain Wire
Separator	Polypropylene Tape
Sheath	Flame Retardant, Sunlight and Ozone Resistant.

• Sheath Options

L	Type SHF1 to IEC 60092-360, Thermoplastic LSHF
F	Type SHF2 to IEC 60092-360, Thermoset, Oil Resistant LSHF
M	Type SHF2 MUD to IEC 60092-360 & NEK TS 606 Thermoset, Oil and Mud Resistant LSHF
P	Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
IEC 60092-353 (Option for ABS 0.6/1kV)
AS/NZS 1125, AS/NZS 5000.3
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Colour

To customer specification

• Sheath Colour

To customer specification
*Blue (for Intrinsically Safe circuit)

• Approvals

International Type Approvals available upon request.

• Operating Temp

-40°C to +110°C

• Voltage Level

150/250 Volts (standard)
600/1000 Volts (option for ABS)

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	0.5	0.9	7.6	30	65
2p	0.5	0.9	11.6	46	122
4p	0.5	0.9	13.7	55	166
8p	0.5	0.9	17.5	70	292
10p	0.5	0.9	19.0	76	346
12p	0.5	0.9	20.7	83	411
16p	0.5	0.9	22.8	91	526
20p	0.5	0.9	23.9	96	625
24p	0.5	0.9	25.7	103	738
27p	0.5	0.9	26.9	107	817
36p	0.5	0.9	30.4	122	1062

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VC

RI/U (i&c) Individual & Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

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 0.75	1.1	8.0	32	73
2p 0.75	1.1	12.2	49	138
4p 0.75	1.1	14.6	59	196
8p 0.75	1.1	18.6	74	336
10p 0.75	1.1	20.3	81	410
12p 0.75	1.1	21.9	88	477
16p 0.75	1.1	24.3	97	612
20p 0.75	1.1	25.7	103	741
24p 0.75	1.1	27.2	109	866
27p 0.75	1.1	28.8	115	971
36p 0.75	1.1	32.4	130	1264
1p 1.0	1.3	8.3	33	83
2p 1.0	1.3	12.7	51	158
4p 1.0	1.3	15.4	61	227
8p 1.0	1.3	19.5	78	396
10p 1.0	1.3	21.2	85	484
12p 1.0	1.3	23.3	93	575
16p 1.0	1.3	25.8	103	738
20p 1.0	1.3	26.9	107	884
24p 1.0	1.3	28.9	116	1046
27p 1.0	1.3	30.2	121	1162
36p 1.0	1.3	34.3	137	1529
1p 1.5	1.5	9.3	37	103
2p 1.5	1.5	14.0	56	189
4p 1.5	1.5	16.6	66	275
8p 1.5	1.5	21.7	87	499
10p 1.5	1.5	23.8	95	610
12p 1.5	1.5	26.0	104	724
16p 1.5	1.5	28.8	115	933
20p 1.5	1.5	30.1	120	1121
24p 1.5	1.5	32.2	129	1328
27p 1.5	1.5	34.0	136	1489
36p 1.5	1.5	38.4	154	1942
1p 2.5	2.0	10.2	41	135
2p 2.5	2.0	15.8	63	255
4p 2.5	2.0	19.0	76	382
8p 2.5	2.0	24.6	99	697
10p 2.5	2.0	26.9	107	854
12p 2.5	2.0	29.4	118	1015
16p 2.5	2.0	32.4	130	1314
20p 2.5	2.0	34.2	137	1602
24p 2.5	2.0	36.7	147	1899
27p 2.5	2.0	38.4	154	2113
36p 2.5	2.0	43.6	175	2784

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	8.9	36	85
3t 0.75	1.1	13.9	56	190
4t 0.75	1.1	15.5	62	241
7t 0.75	1.1	18.8	75	381
1t 1.5	1.5	9.9	40	117
3t 1.5	1.5	16.3	65	281
4t 1.5	1.5	18.1	72	360
7t 1.5	1.5	21.8	87	577

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RFOI/U (i&c) RFCI/U (i&c) Braided Individual & Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

VT

• Applications

Flexible Instrumentations cables suitable for all wind farm applications where mechanical, RFI and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Screen	Individual & Collective Aluminium Laminate Tape with Drain Wire
Separator	Polypropylene Tape
Braid	Tinned Copper Wire (90% coverage) Galvanised Steel Wire (90% coverage)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Sunlight and Ozone Resistant.

• Sheath Options

L	Type SHF1 to IEC 60092-360, Thermoplastic LSHF
F	Type SHF2 to IEC 60092-360, Thermoset, Oil Resistant LSHF
M	Type SHF2 MUD to IEC 60092-360 & NEK TS 606 Thermoset, Oil and Mud Resistant LSHF
P	Type ST2 to IEC 60092-360 & IEC 60502-1

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
IEC 60092-353 (Option for ABS 0.6/1kV)
AS/NZS 1125, AS/NZS 5000.3
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Colour

To customer specification

• Sheath Colour

To customer specification
*Blue (for Intrinsically Safe circuit)

• Approvals

International Type Approvals available upon request.

• Operating Temp

-40°C to +110°C

• Voltage Level

150/250 Volts (standard)
600/1000 Volts (option for ABS)

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.5	0.9	5.8	6.5	9.0	54	113
2p 0.5	0.9	9.3	10.1	12.9	78	216
4p 0.5	0.9	11.2	12.0	15.0	90	237
8p 0.5	0.9	14.6	15.5	18.7	112	374
10p 0.5	0.9	16.0	16.8	20.3	122	444
12p 0.5	0.9	17.5	18.3	21.8	131	508
16p 0.5	0.9	19.5	20.3	24.0	144	632
20p 0.5	0.9	20.5	21.3	25.0	150	736
24p 0.5	0.9	21.9	22.7	26.8	161	857
27p 0.5	0.9	23.2	23.9	28.0	168	941
36p 0.5	0.9	26.4	27.2	31.7	190	1217

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VT

RFOI/U (i&c) RFCI/U (i&c) Braided Individual & Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	6.1	6.9	9.3	56	123
2p 0.75	1.1	9.9	10.7	13.4	81	246
4p 0.75	1.1	12.0	12.8	15.8	95	265
8p 0.75	1.1	15.7	16.5	19.9	119	432
10p 0.75	1.1	17.1	17.9	21.4	128	506
12p 0.75	1.1	18.8	19.5	23.3	140	591
16p 0.75	1.1	20.8	21.6	25.7	154	738
20p 0.75	1.1	21.9	22.7	26.8	161	864
24p 0.75	1.1	23.5	24.3	28.6	171	1007
27p 0.75	1.1	24.8	25.7	29.9	179	1106
36p 0.75	1.1	28.3	29.1	33.8	203	1423
1p 1.0	1.3	6.4	7.2	9.7	58	140
2p 1.0	1.3	10.4	11.2	14.0	84	288
4p 1.0	1.3	12.6	13.4	16.5	99	317
8p 1.0	1.3	16.5	17.3	20.8	125	532
10p 1.0	1.3	18.1	18.9	22.3	134	629
12p 1.0	1.3	19.8	20.6	24.4	147	737
16p 1.0	1.3	22.0	22.8	26.9	161	931
20p 1.0	1.3	23.2	23.9	28.0	168	1100
24p 1.0	1.3	24.8	25.7	30.0	180	1290
27p 1.0	1.3	26.3	27.1	31.5	189	1437
36p 1.0	1.3	29.9	30.6	35.5	213	1850
1p 1.5	1.5	7.1	7.9	10.4	62	164
2p 1.5	1.5	11.6	12.4	15.5	93	361
4p 1.5	1.5	14.1	14.9	18.3	110	387
8p 1.5	1.5	18.6	19.4	23.2	139	658
10p 1.5	1.5	20.3	21.1	24.9	150	779
12p 1.5	1.5	22.3	23.1	27.1	162	915
16p 1.5	1.5	24.8	25.6	29.9	179	1159
20p 1.5	1.5	26.2	27.0	31.4	188	1389
24p 1.5	1.5	28.0	28.8	33.3	200	1613
27p 1.5	1.5	29.6	30.4	35.1	211	1800
36p 1.5	1.5	33.6	34.4	39.8	239	2340
1p 2.5	2.0	8.0	8.8	11.3	68	203
2p 2.5	2.0	13.1	13.9	17.2	103	474
4p 2.5	2.0	16.1	16.9	20.3	122	508
8p 2.5	2.0	21.1	21.9	26.0	156	879
10p 2.5	2.0	23.1	23.9	28.0	168	1048
12p 2.5	2.0	25.4	26.2	30.5	183	1235
16p 2.5	2.0	28.3	29.1	33.8	203	1591
20p 2.5	2.0	29.8	30.6	35.4	212	1899
24p 2.5	2.0	31.9	32.7	37.8	227	2233
27p 2.5	2.0	33.7	34.5	39.8	239	2493
36p 2.5	2.0	38.4	39.2	45.0	270	3250

Number of Triads (t) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1t 0.75	1.1	6.1	7.3	9.7	58	132
3t 0.75	1.1	11.1	11.8	14.8	89	274
4t 0.75	1.1	12.1	13.1	16.1	96	330
7t 0.75	1.1	15.2	16.0	19.3	116	502
1t 1.5	1.5	7.1	8.4	10.8	65	169
3t 1.5	1.5	13.1	13.9	17.1	102	383
4t 1.5	1.5	14.1	15.4	18.7	112	469
7t 1.5	1.5	18.2	18.8	22.3	134	726

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RFOI/U RFCI/U (c)
Offshore Braid Armoured
Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

VA

• Applications

Flexible Instrumentation cables suitable for all wind farm applications where mechanical, RFI and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Screen	Aluminium Laminate Tape with Drain Wire
Separator	Polypropylene Tape
Bedding	Extruded Low Smoke Halogen Free Polymer or ST2
Braid	Tinned Copper Wire (90% coverage) Galvanised Steel Wire (90% coverage)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Sunlight and Ozone Resistant.

• Sheath Options

L	Type SHF1 to IEC 60092-360, Thermoplastic LSHF
F	Type SHF2 to IEC 60092-360, Thermoset, Oil Resistant LSHF
M	Type SHF2 MUD to IEC 60092-360 & NEK TS 606 Thermoset, Oil and Mud Resistant LSHF
P	Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
IEC 60092-353 (Option for ABS 0.6/1kV)
AS/NZS 1125, AS/NZS 5000.3
IEEE 45, IEEE 1580, IEEE 1202
NEK TS 606

• Insulation Colour
To customer specification

• Sheath Colour
To customer specification
*Blue (for Intrinsically Safe circuit)

• Approvals
International Type Approvals available upon request.

• Operating Temp
-40°C to +110°C

• Voltage Level
150/250 Volts (standard)
600/1000 Volts (option for ABS)

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.5	0.9	7.9	8.7	11.2	67	148
2p 0.5*	0.9	8.7	9.5	12.2	73	178
4p 0.5	0.9	12.9	13.7	16.7	100	281
8p 0.5	0.9	16.2	17.0	20.5	123	427
10p 0.5	0.9	17.7	18.5	21.9	132	494
12p 0.5	0.9	19.1	19.9	23.6	142	566
16p 0.5	0.9	21.1	21.9	25.9	155	691
20p 0.5	0.9	22.0	22.8	26.9	161	784
24p 0.5	0.9	23.4	24.2	28.5	171	896
27p 0.5	0.9	24.7	25.6	29.9	179	983
36p 0.5	0.9	27.9	28.7	33.2	199	1233

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VA

RFOI/U RFCI/U (c)
Offshore Braid Armoured
Collective Screened Instrumentation

150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	8.3	9.1	11.7	70	165
2p 0.75*	1.1	9.2	10.0	12.6	76	196
4p 0.75	1.1	13.8	14.6	17.9	107	326
8p 0.75	1.1	17.4	18.2	21.7	130	492
10p 0.75	1.1	18.8	19.6	23.3	140	571
12p 0.75	1.1	20.5	21.3	25.1	151	653
16p 0.75	1.1	22.4	23.2	27.3	164	794
20p 0.75	1.1	23.5	24.3	28.6	171	920
24p 0.75	1.1	25.1	26.0	30.3	182	1052
27p 0.75	1.1	26.4	27.2	31.7	190	1162
36p 0.75	1.1	29.8	30.6	35.4	212	1462
1p 1.0	1.3	8.6	9.4	12.0	72	176
2p 1.0*	1.3	9.5	10.3	13.1	79	212
4p 1.0	1.3	14.5	15.4	18.6	112	358
8p 1.0	1.3	18.3	19.1	22.8	137	556
10p 1.0	1.3	19.7	20.5	24.3	146	636
12p 1.0	1.3	21.5	22.3	26.4	158	742
16p 1.0	1.3	23.8	24.6	29.0	174	915
20p 1.0	1.3	24.9	25.8	30.1	181	1050
24p 1.0	1.3	26.5	27.3	31.8	191	1207
27p 1.0	1.3	28.0	28.8	33.3	200	1329
36p 1.0	1.3	31.6	32.4	37.4	224	1697
1p 1.5	1.5	9.3	10.1	12.9	78	200
2p 1.5*	1.5	10.6	11.4	14.3	86	259
4p 1.5	1.5	16.1	16.9	20.3	122	432
8p 1.5	1.5	20.6	21.4	25.1	151	684
10p 1.5	1.5	22.2	23.0	27.0	162	803
12p 1.5	1.5	24.2	25.0	29.4	176	936
16p 1.5	1.5	26.6	27.4	31.9	191	1150
20p 1.5	1.5	28.1	28.9	33.5	201	1342
24p 1.5	1.5	29.9	30.7	35.5	213	1549
27p 1.5	1.5	31.5	32.3	37.4	224	1726
36p 1.5	1.5	35.6	36.4	41.7	250	2191
1p 2.5	2.0	10.4	11.2	14.0	84	243
2p 2.5*	2.0	11.7	12.5	15.5	93	318
4p 2.5	2.0	18.1	18.9	22.4	135	550
8p 2.5	2.0	23.1	23.9	28.0	168	898
10p 2.5	2.0	25.3	26.1	30.3	182	1073
12p 2.5	2.0	27.6	28.4	32.9	198	1254
16p 2.5	2.0	30.3	31.1	35.9	215	1557
20p 2.5	2.0	31.9	32.7	37.8	227	1850
24p 2.5	2.0	34.1	34.9	40.3	242	2159
27p 2.5	2.0	35.9	36.7	42.2	253	2390
36p 2.5	2.0	40.7	41.5	47.4	284	3069

Number of Triads (t) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1t 0.75	1.1	8.7	9.5	12.1	73	172
3t 0.75	1.1	12.8	13.6	16.6	99	293
4t 0.75	1.1	14.1	14.9	18.3	110	354
7t 0.75	1.1	16.9	17.7	21.1	127	495
1t 1.5	1.5	9.7	10.5	13.3	80	213
3t 1.5	1.5	15.0	15.9	19.2	115	404
4t 1.5	1.5	16.5	17.3	20.7	124	484
7t 1.5	1.5	19.9	20.7	24.5	147	709

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RFOI/U RFCI/U (i&c) Offshore Braid Armoured

Individual & Collective Screened Instrumentation

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

VD

• Applications

Flexible Instrumentation cables suitable for all wind farm applications where mechanical, RFI and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Screen	Individual & Collective Aluminium Laminate Tape with Drain Wire
Separator	Polypropylene Tape
Bedding	Extruded Low Smoke Halogen Free Polymer or ST2
Braid	Tinned Copper Wire (90% coverage) Galvanised Steel Wire (90% coverage)
Separator	Polypropylene Tape
Sheath	Flame Retardant, Sunlight and Ozone Resistant.

• Sheath Options

L	Type SHF1 to IEC 60092-360, Thermoplastic LSHF
F	Type SHF2 to IEC 60092-360, Thermoset, Oil Resistant LSHF
M	Type SHF2 MUD to IEC 60092-360 & NEK TS 606 Thermoset, Oil and Mud Resistant LSHF
P	Type ST2 to IEC 60092-360 & IEC 60502-1 Thermoplastic Lead-free N-RUBBER V-105 PVC

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
IEC 60092-353 (Option for ABS 0.6/1kV)
AS/NZS 1125, AS/NZS 5000.3
IEEE 45, IEEE 1580, IEEE 1202
NEK TS 606

• Insulation Colour

To customer specification

• Sheath Colour

To customer specification
*Blue (for Intrinsically Safe circuit)

• Approvals

International Type Approvals available upon request.

• Operating Temp

-40°C to +110°C

• Voltage Level

150/250 Volts (standard)
600/1000 Volts (option for ABS)

Number of Pairs (p) & Cross Section Area (mm^2)		Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p	0.5	0.9	7.9	8.7	10.9	65	140
2p	0.5	0.9	12.1	12.9	15.3	92	262
4p	0.5	0.9	14.3	15.2	17.4	104	312
8p	0.5	0.9	18.1	18.9	21.5	129	479
10p	0.5	0.9	19.6	20.4	23.0	138	558
12p	0.5	0.9	21.4	22.2	24.6	148	628
16p	0.5	0.9	23.4	24.2	27.1	162	774
20p	0.5	0.9	24.7	25.6	28.4	170	894
24p	0.5	0.9	26.3	27.1	30.1	181	1022
27p	0.5	0.9	27.8	28.6	31.5	189	1127
36p	0.5	0.9	31.3	32.1	35.1	211	1419

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VD

RFOI/U RFCI/U (i&c) Offshore Braid Armoured Individual & Collective Screened Instrumentation

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

Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	8.3	9.1	11.3	69	152
2p 0.75	1.1	12.7	13.5	15.9	95	288
4p 0.75	1.1	15.2	16.0	18.5	111	349
8p 0.75	1.1	19.2	20.0	22.7	136	543
10p 0.75	1.1	20.9	21.7	24.3	146	623
12p 0.75	1.1	22.6	23.4	26.4	158	726
16p 0.75	1.1	24.9	25.8	29.0	174	895
20p 0.75	1.1	26.2	27.0	30.0	180	1026
24p 0.75	1.1	28.0	28.8	31.8	191	1179
27p 0.75	1.1	29.4	30.2	33.3	200	1297
36p 0.75	1.1	33.1	33.9	37.5	225	1655
1p 1.0	1.3	8.6	9.4	11.8	71	168
2p 1.0	1.3	13.2	14.0	16.4	98	317
4p 1.0	1.3	15.5	16.3	18.8	113	382
8p 1.0	1.3	20.0	20.8	23.7	142	612
10p 1.0	1.3	21.8	22.6	25.7	154	726
12p 1.0	1.3	23.8	24.6	27.4	164	825
16p 1.0	1.3	26.2	27.0	30.1	181	1023
20p 1.0	1.3	27.6	28.4	31.5	189	1195
24p 1.0	1.3	29.3	30.1	33.3	200	1374
27p 1.0	1.3	31.0	31.8	35.0	210	1517
36p 1.0	1.3	34.9	35.8	39.2	235	1925
1p 1.5	1.5	9.3	10.1	12.5	75	191
2p 1.5	1.5	14.6	15.5	18.1	108	389
4p 1.5	1.5	17.5	18.3	20.8	125	460
8p 1.5	1.5	22.3	23.1	26.2	157	747
10p 1.5	1.5	24.3	25.1	28.0	168	867
12p 1.5	1.5	26.4	27.2	30.4	182	1012
16p 1.5	1.5	29.2	30.0	33.3	200	1259
20p 1.5	1.5	30.7	31.5	34.9	210	1477
24p 1.5	1.5	32.7	33.5	37.3	224	1717
27p 1.5	1.5	34.5	35.4	38.9	233	1883
36p 1.5	1.5	39.0	39.8	43.9	264	2429
1p 2.5	2.0	10.4	11.2	13.5	81	227
2p 2.5	2.0	16.2	17.0	19.6	118	482
4p 2.5	2.0	19.4	20.2	23.2	139	594
8p 2.5	2.0	25.0	25.9	29.3	176	983
10p 2.5	2.0	27.4	28.2	31.4	188	1165
12p 2.5	2.0	29.6	30.4	34.2	205	1364
16p 2.5	2.0	32.8	33.6	37.5	225	1707
20p 2.5	2.0	34.5	35.4	39.1	235	1998
24p 2.5	2.0	36.8	37.6	41.6	250	2333
27p 2.5	2.0	38.9	39.7	43.9	264	2600
36p 2.5	2.0	44.1	44.9	49.3	296	3347

Number of Triads (t) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1t 0.75	1.1	8.4	9.2	11.9	72	168
3t 0.75	1.1	13.2	14.0	17.3	104	330
4t 0.75	1.1	14.6	15.5	18.8	113	394
7t 0.75	1.1	17.8	18.6	22.0	132	569
1t 1.5	1.5	9.7	10.5	13.3	80	213
3t 1.5	1.5	16.0	16.8	20.2	121	457
4t 1.5	1.5	17.7	18.5	22.0	132	549
7t 1.5	1.5	21.4	22.2	26.3	158	821

Octeve cables (global) reserves the right to update or modify cable specifications at any time.

Our Verde catalogue
is an expression of our commitment
to promoting Green Energy
and Sustainability!

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Low Smoke Halogen Free (LSHF)

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

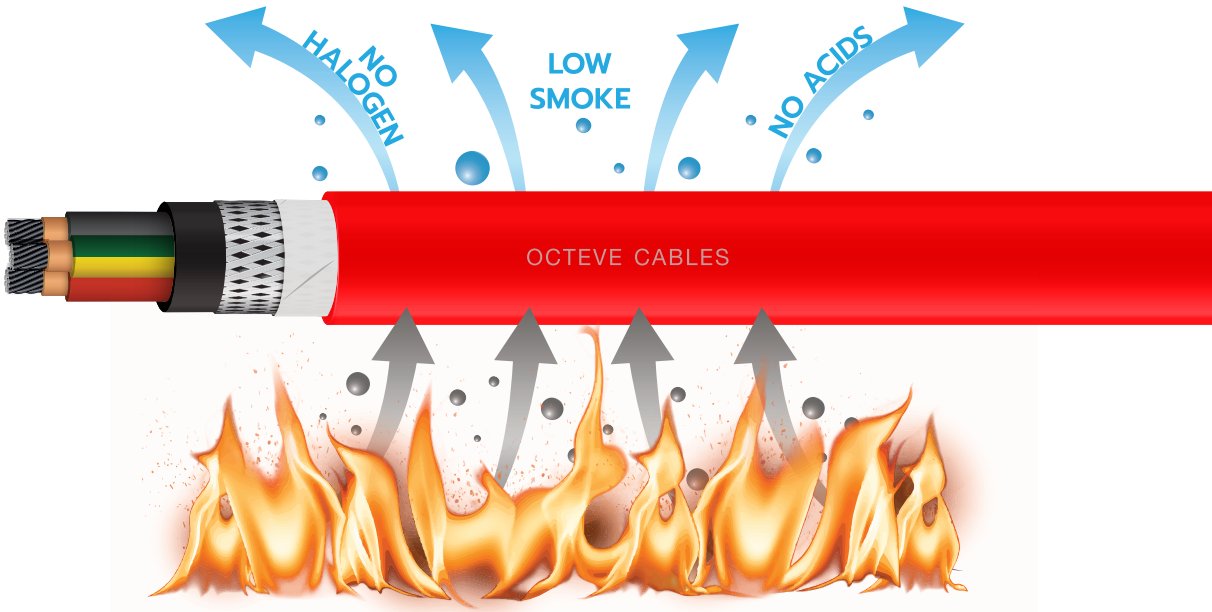
1. **Material:** LSHF cables are typically made with jacket materials that do not contain halogen compounds. The insulation and sheathing materials are chosen to reduce the emission of toxic smoke and gases when the cable is exposed to high temperatures.

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

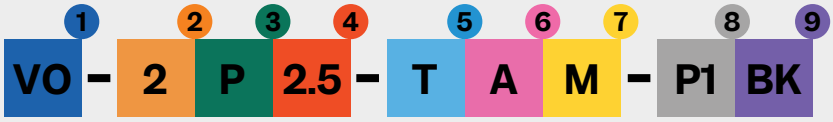
3 Core Type

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: VO-2P2.5-TAM-P1BK

▶ Series VO, 2 Pairs, Pairs, Size 2.5 mm², TACW, GSWB, MUD, Cores color are white and black, Jacket color is black

*** **SH2**-3C6-TAF-A1BK *** **SH2 = SH** in class 2 series

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 BL 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**

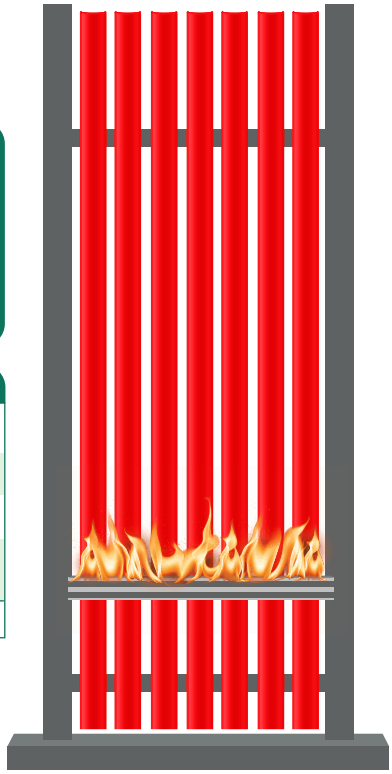
IEC Specifications

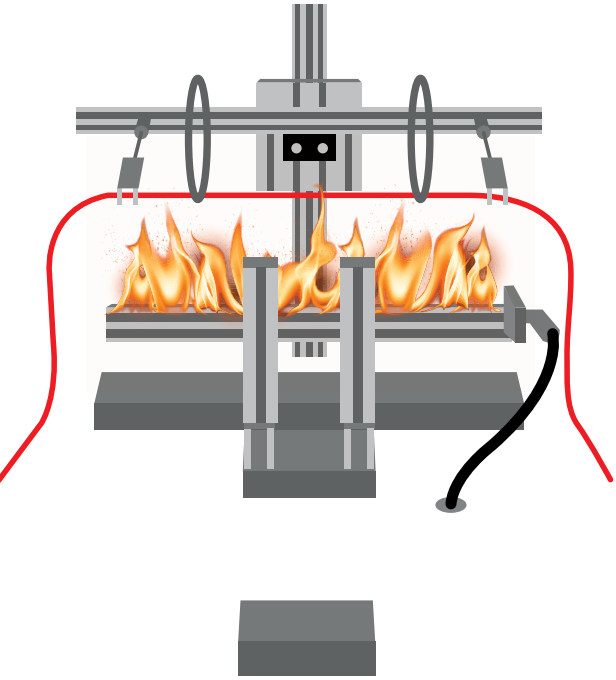
Standard	Title of test
IEC 60092-350	General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications
IEC 60092-352	Electrical installations in ships: Choice and installation of electrical cables
IEC 60092-353	Electrical installations in ships: 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)

Flame & Fire Testing

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

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

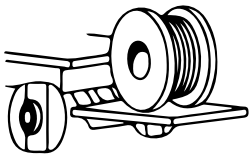
Industry Cable Designations

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

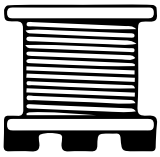
1st Letter Insulation		2nd Letter Bedding/inner jacket		3rd Letter Armouring/screen		4th Letter Outer jacket	
A	Fibre, tight cladded	A	Aluminium (optional with corrosion protection)	A	Strength member yarn	A	Yarn + bitumen
B	Fire resistant tape + insulation (Halogen-free	B	Corrugated aluminium (o.w.c.p.)	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

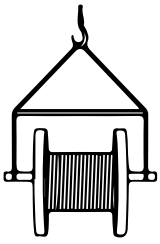
Do's



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

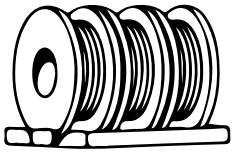


Pallets or spacers should be used to support drums for easier forklift handling.



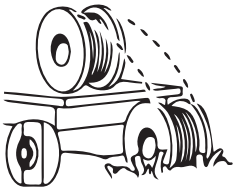
In order to lift or hoist drums, spreader beam should be used.

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



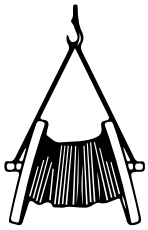
Drums must be fixed and secured.

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.

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Edition 1