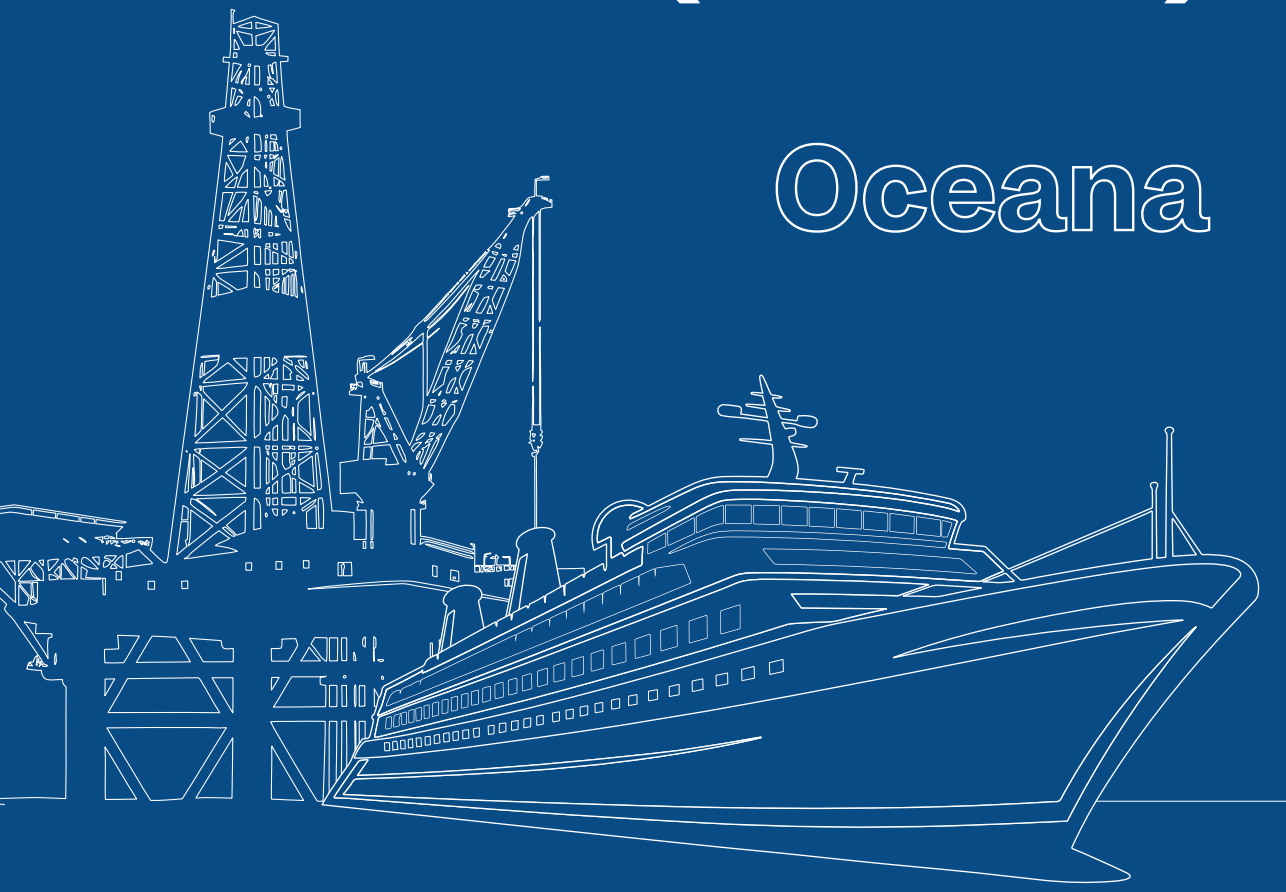
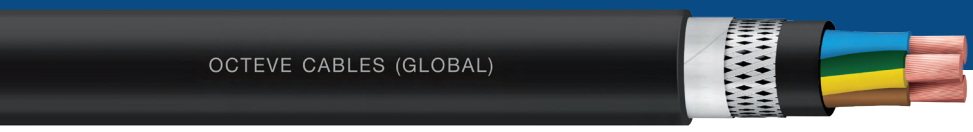
Edition 1

OCTEVE CABLES (GLOBAL)

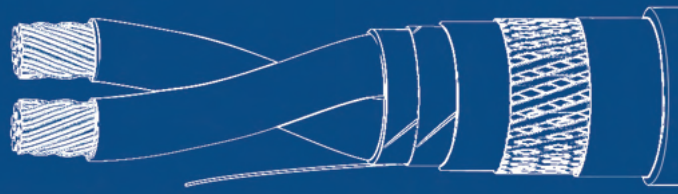
Oceana





Marine & Offshore

OCTEVE®



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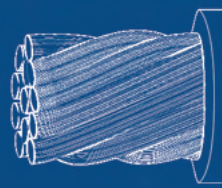

OCTEVE CABLES (GLOBAL)

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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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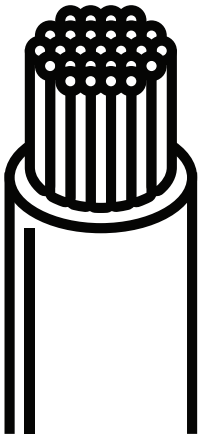
Class 2

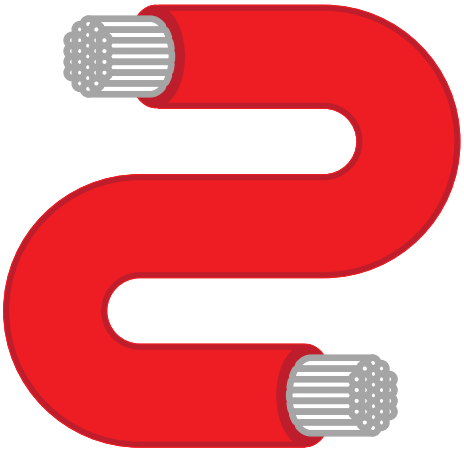
Why Octeve cables?

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

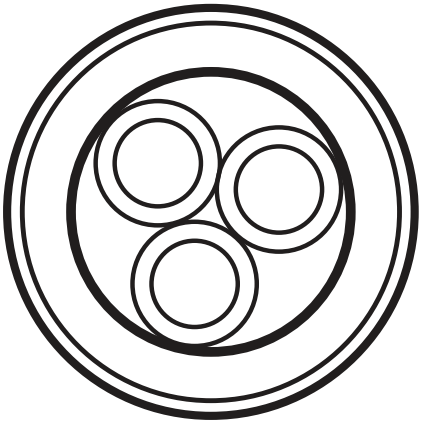
Octeve Cables offer flexible cable construction with a wide range of high performance specialized polymers, LSHF or PVC, that provides significant advantages in terms of durability, safety, and electrical performance.

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

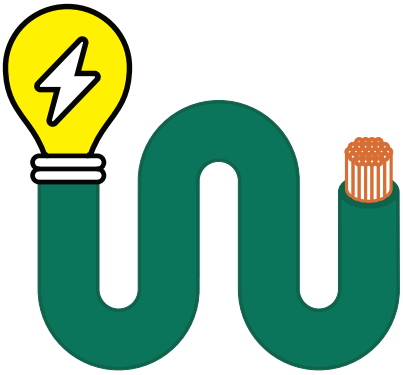
Octeve Cables abilities to customize cables significantly enhances our ability to meet customer needs, improve efficiency, while maintaining a competitive edge.

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.

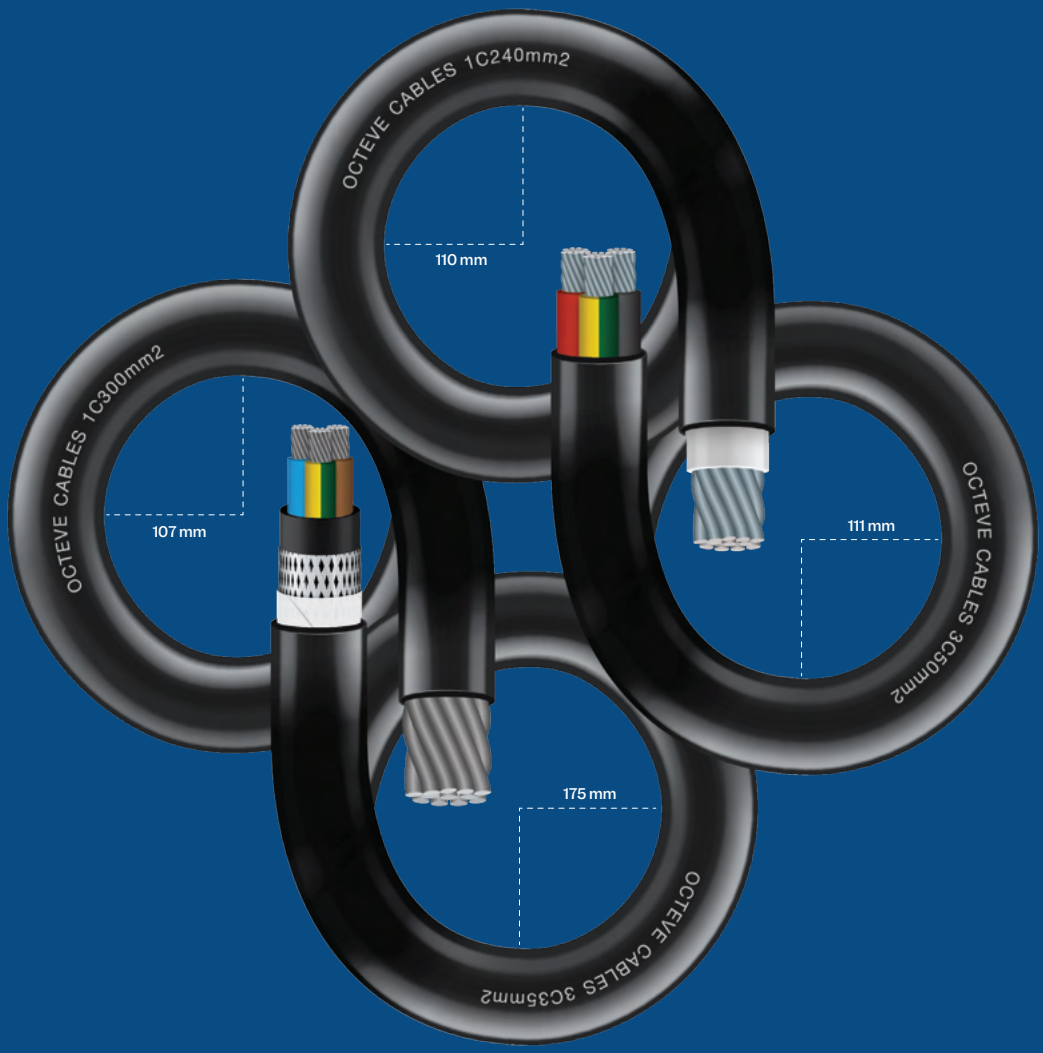


Cable Management

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.

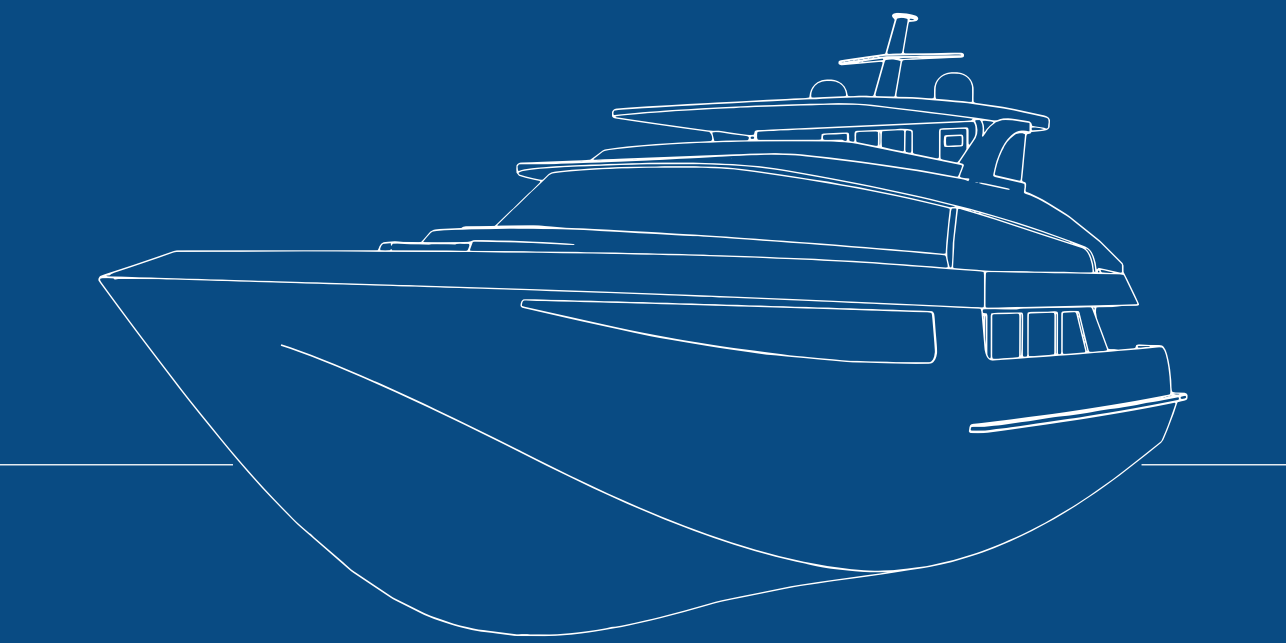
As part of our cable management solutions, our markings facilitate accurate measurement and installation, which helps reduce waste, and support effective project planning.

FLEXIBLE CONSTRUCTION



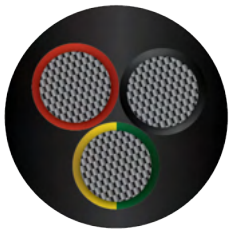
LOW BENDING RADIUS

MARINE CABLES



RI/U Power and Control

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



SH

• Applications

Flexible Power and Control cables suitable for all shipboard and marine 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.

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, Thermoplastic, 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

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Standards

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

• 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 (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	52	81
1C 10	31	4.1	5.6	7.7	72	124
1C 16	36	5.1	6.7	9.0	96	182
1C 25	43	6.4	8.4	10.7	127	276
1C 35	49	7.8	9.8	12.3	157	378
1C 50	56	9.2	11.5	14.0	196	528
1C 70	64	10.8	13.3	16.0	242	714
1C 95	73	12.8	15.3	18.3	293	960
1C 120	82	14.5	17.3	20.4	339	1190
1C 150	91	16.3	19.5	22.9	389	1484
1C 185	101	18.0	21.7	25.2	444	1829
1C 240	112	20.3	24.2	28.0	522	2340
1C 300	125	22.5	27.2	31.1	601	2887
1C 400	139	26.0	30.7	34.8	670	3786
1C 500	155	29.2	34.4	38.7	720	4770
1C 630	173	32.8	38.4	43.2	780	5990

SH

RI/U Power and Control

0.6/1kV 110°C LSHF 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	20	75
2c	2.5	38	2.1	9.5	26	108
2c	4	41	2.5	10.3	34	143
2c	6	47	3.1	11.8	44	196
2c	10	55	4.1	13.8	61	298
2c	16	64	5.2	16.0	82	432
2c	25	79	6.4	19.8	108	670
2c	35	91	7.8	22.7	133	909
3c	1.5	35	1.5	8.7	16	95
3c	2.5	40	2.1	10.1	21	135
3c	4	44	2.5	10.9	28	184
3c	6	50	3.1	12.5	36	255
3c	10	59	4.1	14.9	50	398
3c	16	69	5.2	17.2	67	582
3c	25	84	6.4	21.0	89	900
3c	35	97	7.8	24.2	110	1225
3c	50	111	9.2	27.7	137	1733
3c	70	128	10.8	32.0	169	2332
3c	95	147	12.8	36.7	205	3142
3c	120	164	14.5	41.0	237	3897
3c	150	185	16.3	46.2	272	4952
3c	185	205	18.0	51.2	311	6022
3c	240	228	20.3	57.0	365	7372
4c	1.5	38	1.5	9.5	16	116
4c	2.5	44	2.1	11.0	21	167
4c	4	49	2.5	12.1	28	234
4c	6	54	3.1	13.6	36	320
4c	10	65	4.1	16.3	50	505
4c	16	75	5.2	18.9	67	742
4c	25	93	6.4	23.3	89	1157
4c	35	107	7.8	26.8	110	1578
4c	50	124	9.2	31.0	137	2247
4c	70	142	10.8	35.6	169	3012
4c	95	163	12.8	40.8	205	4061
4c	120	183	14.5	45.8	237	5049
4c	150	206	16.3	51.5	272	6414
4c	185	228	18.0	57.0	311	7797
5c	1.5	42	1.5	10.4	16	148
5c	2.5	49	2.1	12.2	21	215
5c	4	53	2.5	13.3	28	294
5c	6	61	3.1	15.2	36	407
5c	10	73	4.1	18.2	50	637
5c	16	84	5.2	21.1	67	933
5c	25	104	6.4	26.1	89	1450
5c	35	120	7.8	30.0	110	1973
5c	50	139	9.2	34.7	137	2805
5c	70	160	10.8	40.0	169	3769
5c	95	183	12.8	45.8	205	5072
5c	120	206	14.5	51.4	237	6300
5c	150	231	16.3	57.8	272	7994
5c	185	256	18.0	64.1	311	9728
5c	240	285	20.3	71.3	365	11888
7c	1.5	46	1.5	11.5	12	175
10c	1.5	58	1.5	14.5	11	248
12c	1.5	61	1.5	15.1	10	289
14c	1.5	64	1.5	15.9	10	330
16c	1.5	68	1.5	17.0	9	378
19c	1.5	72	1.5	17.9	9	439
24c	1.5	84	1.5	21.0	9	555
27c	1.5	86	1.5	21.6	9	615
33c	1.5	94	1.5	23.4	9	746
37c	1.5	97	1.5	24.3	9	827
7c	2.5	53	2.1	13.3	21	254
10c	2.5	69	2.1	17.2	10	366
12c	2.5	72	2.1	17.9	18	428
14c	2.5	75	2.1	18.8	18	492
16c	2.5	80	2.1	20.1	16	561
19c	2.5	85	2.1	21.2	15	655
24c	2.5	99	2.1	24.8	15	829
27c	2.5	103	2.1	25.7	15	927
33c	2.5	111	2.1	27.7	15	1116
37c	2.5	116	2.1	29.0	15	1248

RFOI/U RFCI/U Braided Power and Control

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

SB

• Applications

Flexible Power and Control cables suitable for all shipboard and marine applications where mechanical 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.
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 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• 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 (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	52	143
1C 10	60	4.1	5.6	6.2	7.7	10.0	72	195
1C 16	66	5.2	6.7	7.2	8.7	11.0	96	260
1C 25	78	6.4	8.4	8.9	10.4	12.9	127	374
1C 35	87	7.8	9.8	10.0	11.9	14.6	157	488
1C 50	97	9.2	11.5	11.6	13.5	16.2	196	658
1C 70	110	10.8	13.3	13.6	15.3	18.3	242	857
1C 95	123	12.8	15.3	15.3	17.4	20.5	293	1122
1C 120	136	14.5	17.3	17.2	19.3	22.7	339	1370
1C 150	149	16.3	19.5	18.7	21.6	24.9	389	1703
1C 185	164	18.0	21.7	21.0	23.7	27.3	444	2043
1C 240	180	20.3	24.2	23.2	26.3	30.0	522	2469
1C 300	196	22.5	26.7	26.0	28.7	32.7	601	3141
1C 400	222	26.0	30.7	29.4	32.7	37.1	670	4093
1C 500	246	29.2	34.4	32.6	36.4	41.0	720	5111
1C 630	273	32.8	38.4	35.9	40.5	45.5	780	6369

SB

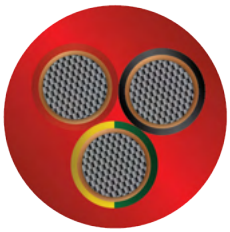
RFOI/U RFCI/U Braided Power and Control

0.6/1kV 110°C LSHF 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 OD Over 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	20	138
2C	2.5	71	2.1	7.6	9.3	11.8	26	200
2C	4	75	2.5	8.6	10.1	12.6	34	244
2C	6	83	3.1	9.7	11.3	13.8	44	305
2C	10	96	4.1	11.6	13.3	16.0	61	431
2C	16	109	5.2	13.5	15.3	18.2	82	583
2C	25	131	6.4	16.8	18.7	21.8	108	848
2C	35	148	7.8	18.9	21.4	24.7	133	1111
3C	1.5	65	1.5	7.1	8.5	10.8	16	178
3C	2.5	74	2.1	8.1	9.8	12.3	21	228
3C	4	79	2.5	9.2	10.7	13.2	28	284
3C	6	88	3.1	10.4	12.0	14.7	36	368
3C	10	103	4.1	12.4	14.2	17.1	50	531
3C	16	115	5.2	14.5	16.3	19.2	67	727
3C	25	140	6.4	18.0	19.9	23.3	89	1081
3C	35	159	7.8	20.3	22.9	26.4	110	1433
3C	50	180	9.2	23.7	26.2	30.0	137	2000
3C	70	206	10.8	27.9	30.1	34.3	169	2603
3C	95	234	12.8	31.5	34.4	39.0	205	3427
3C	120	260	14.5	35.3	38.5	43.3	237	4207
3C	150	291	16.3	38.6	43.3	48.5	272	5287
3C	185	320	18.0	43.3	47.8	53.4	311	6381
3C	240	355	20.3	48.0	53.2	59.2	365	7753
4C	1.5	70	1.5	7.8	9.2	11.7	16	203
4C	2.5	79	2.1	8.9	10.7	13.2	21	267
4C	4	86	2.5	10.1	11.7	14.4	28	343
4C	6	95	3.1	11.5	13.1	15.9	36	443
4C	10	111	4.1	13.8	15.6	18.5	50	649
4C	16	127	5.2	16.1	18.0	21.1	67	907
4C	25	154	6.4	20.0	22.1	25.6	89	1357
4C	35	175	7.8	22.6	25.4	29.1	110	1805
4C	50	198	9.2	26.4	29.1	33.1	137	2515
4C	70	227	10.8	31.1	33.5	37.8	169	3302
4C	95	258	12.8	35.1	38.3	43.0	169	4385
4C	120	288	14.5	39.4	42.8	48.0	237	5405
4C	150	323	16.3	43.1	48.2	53.8	272	6804
4C	185	355	18.0	48.4	53.2	59.2	311	8217
5C	1.5	76	1.5	8.7	10.1	12.6	16	236
5C	2.5	87	2.1	9.9	11.8	14.5	21	317
5C	4	94	2.5	11.3	12.9	15.6	28	406
5C	6	105	3.1	12.8	14.5	17.5	36	534
5C	10	122	4.1	15.4	17.3	20.4	50	788
5C	16	140	5.2	18.0	20.0	23.3	67	1107
5C	25	170	6.4	22.4	24.6	28.3	89	1664
5C	35	193	7.8	25.4	28.3	32.2	110	2245
5C	50	221	9.2	29.6	32.6	36.9	137	3089
7C	1.5	81	1.5	9.6	11.0	13.5	12	260
10C	1.5	100	1.5	12.4	13.9	16.6	11	355
12C	1.5	104	1.5	13.0	14.5	17.4	10	406
14C	1.5	109	1.5	13.7	15.2	18.1	10	454
16C	1.5	114	1.5	14.6	16.1	19.0	9	503
19C	1.5	121	1.5	15.5	17.0	20.1	9	577
24C	1.5	139	1.5	18.2	19.9	23.2	9	716
27C	1.5	143	1.5	18.8	20.5	23.8	9	781
33C	1.5	154	1.5	20.4	22.1	25.7	9	925
37C	1.5	159	1.5	21.3	23.0	26.6	9	1014
7C	2.5	93	2.1	10.9	12.9	15.6	21	358
10C	2.5	115	2.1	14.1	16.3	19.2	20	493
12C	2.5	121	2.1	14.8	17.0	20.1	18	566
14C	2.5	126	2.1	15.7	17.9	21.0	18	637
16C	2.5	133	2.1	16.7	19.0	22.1	16	709
19C	2.5	140	2.1	17.7	20.1	23.4	15	818
24C	2.5	162	2.1	20.9	23.5	27.0	15	1084
27C	2.5	168	2.1	21.6	24.2	28.0	15	1186
33C	2.5	180	2.1	23.4	26.2	30.0	15	1379
37C	2.5	187	2.1	24.4	27.3	31.2	15	1515

BI/U Fire Resistant Power and Control

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



SC

• Applications

Flexible Power and Control cables suitable for all shipboard and marine applications where circuit integrity is required under fire conditions.

• Design Construction

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

Flame Barrier Halogen Free Glass Mica Tape

Insulation HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.

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

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• 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 (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	60	3.1	5.4	7.5	52	91
1C 10	69	4.1	6.4	8.7	72	138
1C 16	78	5.1	7.5	9.8	96	196
1C 25	93	6.4	9.1	11.6	127	294
1C 35	105	7.8	10.6	13.1	157	392
1C 50	119	9.2	12.2	14.9	196	552
1C 70	136	10.8	14.0	17.0	242	741
1C 95	152	12.8	16.1	19.0	293	986
1C 120	169	14.5	18.0	21.1	339	1221
1C 150	189	16.3	20.3	23.6	389	1543
1C 185	208	18.0	22.4	26.0	444	1867
1C 240	230	20.3	25.0	28.7	522	2383
1C 300	255	22.5	27.9	31.9	601	3003
1C 400	284	26.0	31.4	35.6	670	3839
1C 500	317	29.2	35.1	39.7	720	4839
1C 630	352	32.8	39.2	43.9	780	6055

SC

BI/U Fire Resistant Power and Control

0.6/1kV 110°C LSHF 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	77	1.5	9.7	20	104
2C	2.5	88	2.1	11.0	26	141
2C	4	96	2.5	12.0	34	183
2C	6	106	3.1	13.2	44	238
2C	10	124	4.1	15.5	61	353
2C	16	143	5.1	17.8	82	499
2C	25	170	6.4	21.2	108	739
2C	35	193	7.8	24.2	133	987
3C	1.5	79	1.5	9.9	16	124
3C	2.5	95	2.1	11.8	21	180
3C	4	102	2.5	12.7	28	234
3C	6	114	3.1	14.2	36	312
3C	10	131	4.1	16.4	50	463
3C	16	152	5.1	19.0	67	662
3C	25	182	6.4	22.8	89	993
3C	35	208	7.8	25.9	110	1332
3C	50	236	9.2	29.5	137	1854
3C	70	270	10.8	33.8	169	2488
3C	95	306	12.8	38.3	205	3311
3C	120	342	14.5	42.8	237	4102
3C	150	384	16.3	48.0	272	5182
3C	185	423	18.0	52.9	311	6276
3C	240	470	20.3	58.7	365	7655
4C	1.5	89	1.5	11.1	16	158
4C	2.5	103	2.1	12.9	21	223
4C	4	111	2.5	13.9	28	292
4C	6	125	3.1	15.6	36	392
4C	10	146	4.1	18.2	50	592
4C	16	168	5.1	21.1	67	848
4C	25	202	6.4	25.3	89	1274
4C	35	230	7.8	28.8	110	1712
4C	50	262	9.2	32.8	137	2389
4C	70	300	10.8	37.5	169	3208
4C	95	342	12.8	42.7	205	4287
4C	120	382	14.5	47.7	237	5309
4C	150	428	16.3	53.4	272	6705
4C	185	471	18.0	58.9	311	8118
5C	1.5	99	1.5	12.4	16	194
5C	2.5	115	2.1	14.4	21	273
5C	4	124	2.5	15.5	28	358
5C	6	139	3.1	17.4	36	482
5C	10	163	4.1	20.4	50	729
5C	16	188	5.1	23.5	67	1045
5C	25	226	6.4	28.2	89	1571
5C	35	257	7.8	32.2	110	2112
5C	50	295	9.2	36.8	137	2962
7C	1.5	108	1.5	13.5	12	218
10C	1.5	140	1.5	17.5	11	314
12C	1.5	145	1.5	18.2	10	366
14C	1.5	153	1.5	19.1	10	419
16C	1.5	163	1.5	20.4	9	478
19C	1.5	172	1.5	21.5	9	556
24C	1.5	203	1.5	25.4	9	709
27C	1.5	209	1.5	26.2	9	786
33C	1.5	227	1.5	28.4	9	951
37C	1.5	236	1.5	29.5	9	1054
7C	2.5	126	2.5	15.7	21	305
10C	2.5	162	2.5	20.3	20	440
12C	2.5	169	2.5	21.1	18	514
14C	2.5	178	2.5	22.2	18	589
16C	2.5	190	2.5	23.7	16	673
19C	2.5	202	2.5	25.3	15	792
24C	2.5	237	2.5	29.6	15	998
27C	2.5	244	2.5	30.5	15	1109
33C	2.5	264	2.5	33.0	15	1342
37C	2.5	276	2.5	34.6	15	1501

BFOI/U BFCI/U Fire Resistant Braided Power and Control

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

SR

• Applications

Flexible Power and Control cables suitable for all shipboard and marine applications where circuit integrity under fire conditions, mechanical and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Flame Barrier	Halogen Free Glass Mica Tape
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
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

• Standards

IEC 60228, IEC 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• 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 (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)
1C 6	97	3.1	5.4	7.4	9.7	52	159
1C 10	107	4.1	6.4	8.4	10.7	72	213
1C 16	120	5.1	7.5	9.5	12.0	96	284
1C 25	137	6.4	9.1	11.2	13.7	127	394
1C 35	153	7.8	10.6	12.6	15.3	157	509
1C 50	172	9.2	12.2	14.2	17.2	196	685
1C 70	190	10.8	14.0	16.1	19.0	242	886
1C 95	212	12.8	16.1	18.1	21.2	293	1155
1C 120	234	14.5	18.0	20.1	23.4	339	1408
1C 150	258	16.3	20.3	22.3	25.8	389	1751
1C 185	282	18.0	22.4	24.5	28.2	444	2096
1C 240	310	20.3	25.0	27.0	31.0	522	2636
1C 300	341	22.5	27.9	30.0	34.1	601	3284
1C 400	378	26.0	31.4	33.4	37.8	670	4152
1C 500	419	29.2	35.1	37.1	41.9	720	5188
1C 630	462	32.8	39.2	41.2	46.2	780	6441

SR

BFOI/U BFCI/U Fire Resistant Braided Power and Control

0.6/1kV 110°C LSHF 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 Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	119	1.5	9.4	11.9	20	193
2C	2.5	132	2.1	10.7	13.2	26	239
2C	4	142	2.5	11.5	14.2	34	290
2C	6	155	3.1	12.8	15.5	44	355
2C	10	177	4.1	14.8	17.7	61	486
2C	16	201	5.1	17.0	20.1	82	650
2C	25	235	6.4	20.1	23.5	108	913
2C	35	264	7.8	22.9	26.4	133	1181
3C	1.5	125	1.5	10.0	12.5	16	215
3C	2.5	139	2.1	11.4	13.9	21	270
3C	4	150	2.5	12.3	15.0	28	336
3C	6	163	3.1	13.6	16.3	36	418
3C	10	187	4.1	15.8	18.7	50	588
3C	16	212	5.1	18.1	21.2	67	801
3C	25	248	6.4	21.5	24.8	89	1146
3C	35	282	7.8	24.4	28.2	110	1508
3C	50	317	9.2	27.8	31.7	137	2047
3C	70	358	10.8	31.7	35.8	169	2689
3C	95	405	12.8	36.0	40.5	205	3539
3C	120	451	14.5	40.1	45.1	237	4349
3C	150	502	16.3	44.8	50.2	272	5445
3C	185	549	18.0	49.3	54.9	311	6537
3C	240	607	20.3	54.7	60.7	365	8254
4C	1.5	134	1.5	10.9	13.4	16	249
4C	2.5	152	2.1	12.5	15.2	21	321
4C	4	162	2.5	13.4	16.2	28	399
4C	6	178	3.1	14.9	17.8	36	508
4C	10	205	4.1	17.4	20.5	50	723
4C	16	233	5.1	20.0	23.3	67	995
4C	25	273	6.4	23.8	27.3	89	1436
4C	35	310	7.8	27.1	31.0	110	1899
4C	50	350	9.2	30.8	35.0	137	2596
4C	70	398	10.8	35.2	39.8	169	3436
4C	95	450	12.8	40.0	45.0	205	4536
4C	120	498	14.5	44.6	49.8	237	5566
4C	150	557	16.3	49.9	55.7	272	6998
4C	185	612	18.0	55.0	61.2	311	8429
5C	1.5	147	1.5	12.0	14.7	16	294
5C	2.5	165	2.1	13.8	16.5	21	378
5C	4	178	2.5	14.9	17.8	28	478
5C	6	194	3.1	16.5	19.4	36	607
5C	10	226	4.1	19.3	22.6	50	877
5C	16	258	5.1	22.2	25.8	67	1214
5C	25	303	6.4	26.5	30.3	89	1761
5C	35	344	7.8	30.3	34.4	110	2334
5C	50	391	9.2	34.5	39.1	137	3213
7C	1.5	158	1.5	13.1	15.8	12	323
12C	1.5	204	1.5	17.3	20.4	10	507
19C	1.5	238	1.5	20.4	23.8	9	722
24C	1.5	275	1.5	23.9	27.5	9	897
27C	1.5	284	1.5	24.7	28.4	9	987
33C	1.5	304	1.5	26.7	30.4	9	1160
37C	1.5	317	1.5	27.8	31.7	9	1281
7C	2.5	180	2.1	15.1	18.0	21	428
12C	2.5	234	2.1	20.1	23.4	18	678
19C	2.5	273	2.1	23.8	27.3	15	978
24C	2.5	318	2.1	27.9	31.8	15	1226
27C	2.5	327	2.1	28.8	32.7	15	1344
33C	2.5	353	2.1	31.1	35.3	15	1597
37C	2.5	368	2.1	32.4	36.8	15	1766

RI/U (c) Collective Screened Instrumentation

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

MA

• Applications

Flexible Instrumentations cables suitable for all shipboard and marine 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 (mm^2)	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

MA

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

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

MB

• Applications

Flexible Instrumentations cables suitable for all shipboard and marine 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

MB

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

BI/U (c) Fire Resistant Collective Screened Instrumentation

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

MC

• Applications

Flexible Instrumentation cables suitable for all shipboard and marine applications where circuit integrity is required under fire conditions

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Frame Barrier	Halogen Free Glass Mica Tape
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
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

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
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	9.6	58	98
2p 0.5*	0.9	10.7	64	117
4p 0.5	0.9	16.5	99	186
8p 0.5	0.9	21.1	127	320
10p 0.5	0.9	23.0	138	387
12p 0.5	0.9	24.9	150	446
16p 0.5	0.9	27.6	165	565
20p 0.5	0.9	29.2	175	677
24p 0.5	0.9	31.1	187	795
27p 0.5	0.9	32.6	196	877
36p 0.5	0.9	37.1	222	1144

MC

BI/U (c) Fire Resistant 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	9.9	59	107
2p 0.75*	1.1	11.1	67	131
4p 0.75	1.1	17.1	102	216
8p 0.75	1.1	22.2	133	368
10p 0.75	1.1	24.2	145	445
12p 0.75	1.1	26.5	159	527
16p 0.75	1.1	29.2	175	670
20p 0.75	1.1	30.6	184	791
24p 0.75	1.1	32.7	196	931
27p 0.75	1.1	34.6	208	1043
36p 0.75	1.1	39.0	234	1347
1p 1.0	1.3	10.2	61	117
2p 1.0*	1.3	11.7	70	152
4p 1.0	1.3	18.2	109	244
8p 1.0	1.3	23.3	140	424
10p 1.0	1.3	25.1	151	504
12p 1.0	1.3	27.5	165	597
16p 1.0	1.3	30.4	182	760
20p 1.0	1.3	32.0	192	916
24p 1.0	1.3	34.3	206	1078
27p 1.0	1.3	36.1	216	1191
36p 1.0	1.3	40.8	245	1558
1p 1.5	1.5	10.8	65	137
2p 1.5*	1.5	12.4	75	181
4p 1.5	1.5	19.5	117	294
8p 1.5	1.5	25.1	151	520
10p 1.5	1.5	27.4	164	632
12p 1.5	1.5	29.9	179	750
16p 1.5	1.5	33.0	198	960
20p 1.5	1.5	34.8	209	1159
24p 1.5	1.5	37.3	224	1367
27p 1.5	1.5	39.2	235	1512
36p 1.5	1.5	44.4	267	1984
1p 2.5	2.0	12.0	72	179
2p 2.5*	2.0	13.7	82	236
4p 2.5	2.0	21.8	131	399
8p 2.5	2.0	28.5	171	729
10p 2.5	2.0	30.8	185	874
12p 2.5	2.0	33.8	203	1051
16p 2.5	2.0	37.4	224	1349
20p 2.5	2.0	39.4	236	1636
24p 2.5	2.0	41.9	251	1913
27p 2.5	2.0	44.3	266	2143
36p 2.5	2.0	50.2	301	2812

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	10.4	62	121
3t 0.75	1.1	16.2	97	233
4t 0.75	1.1	17.9	107	295
7t 0.75	1.1	21.7	130	466
1t 1.5	1.5	11.6	70	163
3t 1.5	1.5	18.4	110	324
4t 1.5	1.5	20.2	121	414
7t 1.5	1.5	24.5	147	663

BFOI/U BFCI/U (c) Fire Resistant Braided Collective Screened Instrumentation

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

MD

• Applications

Flexible Instrumentation cables suitable for all shipboard and marine applications where circuit intefrity under fire conditions, mechanical, RFI, and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Frame Barrier	Halogen Free Glass Mica Tape
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

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
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)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p	0.5	0.9	7.1	7.9	10.4	83	146
2p	0.5*	0.9	8.1	9.0	11.7	94	174
4p	0.5	0.9	13.1	14.2	17.5	140	270
8p	0.5	0.9	17.2	18.5	21.9	175	419
10p	0.5	0.9	19.2	20.1	23.9	191	495
12p	0.5	0.9	21.2	22.0	26.0	208	575
16p	0.5	0.9	23.2	24.3	28.7	229	709
20p	0.5	0.9	25.3	25.7	30.0	240	816
24p	0.5	0.9	26.3	27.5	31.9	255	944
27p	0.5	0.9	28.3	29.0	33.5	268	1033
36p	0.5	0.9	32.3	32.8	37.9	303	1324

MD

BFOI/U BFCI/U (c) Fire Resistant 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 Overall Diameter (mm)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	7.1	8.3	10.7	86	158
2p 0.75*	1.1	9.1	9.4	12.1	97	191
4p 0.75	1.1	14.1	14.7	17.9	143	295
8p 0.75	1.1	18.2	19.5	23.3	187	482
10p 0.75	1.1	20.2	21.2	25.0	200	560
12p 0.75	1.1	22.2	23.2	27.3	218	652
16p 0.75	1.1	25.3	25.8	30.0	240	809
20p 0.75	1.1	26.3	27.1	31.6	253	950
24p 0.75	1.1	28.3	29.0	33.6	269	1089
27p 0.75	1.1	29.3	30.6	35.5	284	1209
36p 0.75	1.1	34.3	34.7	40.0	320	1553
1p 1.0	1.3	8.1	8.6	11.0	88	170
2p 1.0*	1.3	9.1	9.8	12.5	100	208
4p 1.0	1.3	15.2	15.7	19.0	152	327
8p 1.0	1.3	19.2	20.4	24.1	193	234
10p 1.0	1.3	21.2	22.2	26.2	209	634
12p 1.0	1.3	23.2	24.2	28.6	229	739
16p 1.0	1.3	26.3	26.9	31.4	251	919
20p 1.0	1.3	27.3	28.4	32.8	263	1070
24p 1.0	1.3	29.3	30.3	35.1	281	1243
27p 1.0	1.3	31.3	32.0	37.1	297	1382
36p 1.0	1.3	35.4	36.4	41.6	333	1758
1p 1.5	1.5	8.1	9.2	11.9	95	198
2p 1.5*	1.5	10.1	10.5	13.3	107	241
4p 1.5	1.5	16.2	17.0	20.5	164	394
8p 1.5	1.5	21.2	22.1	26.2	209	651
10p 1.5	1.5	23.2	24.1	28.5	228	776
12p 1.5	1.5	25.3	26.5	30.7	246	892
16p 1.5	1.5	28.3	29.3	34.1	273	1133
20p 1.5	1.5	30.3	30.9	25.7	285	1327
24p 1.5	1.5	32.3	33.0	38.1	305	1547
27p 1.5	1.5	34.3	34.8	40.2	322	1721
36p 1.5	1.5	38.4	39.6	45.5	364	2221
1p 2.5	2.0	9.1	10.2	12.9	103	241
2p 2.5*	2.0	11.1	11.7	14.7	118	310
4p 2.5	2.0	18.2	19.1	22.8	183	511
8p 2.5	2.0	24.2	24.9	29.3	234	865
10p 2.5	2.0	26.3	27.3	31.8	255	1035
12p 2.5	2.0	29.3	29.9	34.6	277	1215
16p 2.5	2.0	32.3	33.1	38.2	305	1531
20p 2.5	2.0	34.3	34.9	40.2	322	1827
24p 2.5	2.0	36.4	37.4	42.9	343	2138
27p 2.5	2.0	38.4	39.5	45.3	363	2381
36p 2.5	2.0	44.4	44.8	51.2	410	3084

Number of Triads (t) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1t 0.75	1.1	8.1	8.8	11.2	90	160
3t 0.75	1.1	13.1	14.0	17.3	138	300
4t 0.75	1.1	15.2	15.5	18.8	150	359
7t 0.75	1.1	18.2	19.0	22.7	182	543
1t 1.5	1.5	9.1	9.7	12.4	99	204
3t 1.5	1.5	15.2	15.9	19.2	154	390
4t 1.5	1.5	17.2	17.6	21.0	168	482
7t 1.5	1.5	21.2	21.6	25.6	204	745

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

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

ME

• Applications

Flexible Instrumentations cables suitable for all shipboard and marine 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 (mm²)	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

ME

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

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

MG

• Applications

Flexible Instrumentations cables suitable for all shipboard and marine 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

MG

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

BI/U (i&c) Fire Resistant Individual & Collective Screened Instrumentation

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

MT

• Applications

Flexible Instrumentation cables suitable for all shipboard and marine applications where circuit integrity is required under fire conditions.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Frame Barrier	Halogen Free Glass Mica Tape
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

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
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	9.3	56	92
2p	0.5	0.9	14.4	87	169
4p	0.5	0.9	17.2	103	230
8p	0.5	0.9	21.9	132	394
10p	0.5	0.9	24.0	144	478
12p	0.5	0.9	26.2	157	567
16p	0.5	0.9	29.1	175	723
20p	0.5	0.9	30.4	182	857
24p	0.5	0.9	32.5	195	1012
27p	0.5	0.9	34.3	206	1133
36p	0.5	0.9	38.8	233	1469

MT

BI/U (i&c) Fire Resistant 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	9.7	58	101
2p 0.75	1.1	15.0	90	186
4p 0.75	1.1	18.1	108	257
8p 0.75	1.1	23.2	139	453
10p 0.75	1.1	25.1	151	539
12p 0.75	1.1	27.5	165	639
16p 0.75	1.1	30.4	182	820
20p 0.75	1.1	32.0	192	990
24p 0.75	1.1	34.3	206	1169
27p 0.75	1.1	36.1	216	1293
36p 0.75	1.1	40.9	245	1697
1p 1.0	1.3	10.0	60	111
2p 1.0	1.3	15.6	93	207
4p 1.0	1.3	18.7	112	291
8p 1.0	1.3	24.1	145	518
10p 1.0	1.3	26.4	158	630
12p 1.0	1.3	28.8	173	747
16p 1.0	1.3	31.8	191	958
20p 1.0	1.3	33.2	199	1143
24p 1.0	1.3	35.7	214	1351
27p 1.0	1.3	37.7	226	1514
36p 1.0	1.3	42.7	256	1987
1p 1.5	1.5	10.6	64	129
2p 1.5	1.5	16.6	99	239
4p 1.5	1.5	19.7	118	340
8p 1.5	1.5	26.2	157	628
10p 1.5	1.5	28.6	171	766
12p 1.5	1.5	31.1	187	908
16p 1.5	1.5	34.5	207	1166
20p 1.5	1.5	36.2	217	1396
24p 1.5	1.5	38.7	232	1651
27p 1.5	1.5	40.8	245	1850
36p 1.5	1.5	46.3	278	2428
1p 2.5	2.0	11.8	71	170
2p 2.5	2.0	18.6	112	313
4p 2.5	2.0	22.3	134	459
8p 2.5	2.0	29.3	176	846
10p 2.5	2.0	31.9	191	1035
12p 2.5	2.0	34.8	209	1228
16p 2.5	2.0	38.7	232	1585
20p 2.5	2.0	40.7	244	1926
24p 2.5	2.0	43.4	261	2280
27p 2.5	2.0	46.0	276	2554
36p 2.5	2.0	52.0	312	3355

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	10.2	61	108
3t 0.75	1.1	16.7	100	248
4t 0.75	1.1	18.5	111	316
7t 0.75	1.1	22.4	135	501
1t 1.5	1.5	11.1	67	143
3t 1.5	1.5	18.8	113	345
4t 1.5	1.5	20.8	125	442
7t 1.5	1.5	25.5	153	721

BFOI/U BFCI/U (i&c) Fire Resistant Braided

Individual & Collective Screened Instrumentation

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

MS

• Applications

Flexible Instrumentation cables suitable for all shipboard and marine applications where circuit integrity under fire conditions, mechanical, RFI, and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Frame Barrier	Halogen Free Glass Mica Tape
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

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
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	7.1	7.7	10.1	81	141
2p 0.5	0.9	12.1	12.5	15.6	124	304
4p 0.5	0.9	14.1	15.2	18.4	147	311
8p 0.5	0.9	19.2	19.6	23.3	187	507
10p 0.5	0.9	20.2	21.3	25.1	201	590
12p 0.5	0.9	22.2	23.3	27.3	218	689
16p 0.5	0.9	25.3	25.9	30.2	242	859
20p 0.5	0.9	26.3	27.2	31.7	254	1012
24p 0.5	0.9	28.3	29.1	33.9	271	1176
27p 0.5	0.9	30.3	30.7	35.5	284	1291
36p 0.5	0.9	34.3	34.8	40.1	321	1663

MS

BFOI/U BFCI/U (i&c)
Fire Resistant Braided
Individual & Collective Screened Instrumentation

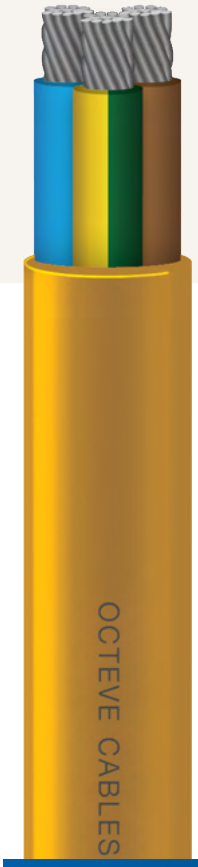
150/250V or 0.6/1kV 110°C LSHF Flame Retardant
ROHS III & REACH compliant

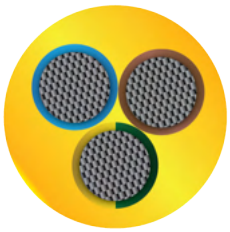
Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	7.1	8.0	10.5	84	154
2p 0.75	1.1	12.1	13.1	16.2	129	338
4p 0.75	1.1	15.2	15.9	19.2	154	342
8p 0.75	1.1	20.2	20.6	24.3	195	563
10p 0.75	1.1	21.2	22.4	26.5	212	671
12p 0.75	1.1	23.2	24.5	28.9	231	783
16p 0.75	1.1	26.3	27.3	31.7	254	977
20p 0.75	1.1	28.3	28.6	33.1	265	1140
24p 0.75	1.1	30.3	30.6	35.5	284	1329
27p 0.75	1.1	31.3	32.3	37.4	299	1478
36p 0.75	1.1	36.4	36.7	42.2	338	1905
1p 1.0	1.3	7.1	8.3	10.8	86	166
2p 1.0	1.3	13.1	13.6	16.7	133	374
4p 1.0	1.3	16.2	16.5	20.0	160	389
8p 1.0	1.3	20.2	21.4	25.3	202	631
10p 1.0	1.3	22.2	23.4	27.5	220	755
12p 1.0	1.3	25.3	25.6	29.9	239	883
16p 1.0	1.3	27.3	28.4	32.9	263	1108
20p 1.0	1.3	29.3	29.9	34.6	277	1316
24p 1.0	1.3	31.3	32.0	37.0	296	1535
27p 1.0	1.3	33.3	33.7	38.9	311	1691
36p 1.0	1.3	37.4	38.3	43.9	351	2185
1p 1.5	1.5	8.1	9.0	11.6	93	194
2p 1.5	1.5	14.1	14.7	17.9	143	447
4p 1.5	1.5	17.2	17.8	21.3	170	447
8p 1.5	1.5	22.2	23.2	27.3	218	752
10p 1.5	1.5	24.2	25.4	29.7	238	900
12p 1.5	1.5	27.3	27.8	32.2	258	1054
16p 1.5	1.5	30.3	30.8	35.7	285	1328
20p 1.5	1.5	31.3	32.4	37.5	300	1583
24p 1.5	1.5	34.3	34.7	40.0	320	1849
27p 1.5	1.5	35.4	36.6	41.9	335	2041
36p 1.5	1.5	40.4	41.6	47.4	379	2642
1p 2.5	2.0	9.1	9.9	12.6	101	237
2p 2.5	2.0	15.2	16.4	19.7	158	571
4p 2.5	2.0	19.2	19.9	23.7	190	575
8p 2.5	2.0	25.3	26.1	30.4	243	986
10p 2.5	2.0	27.3	28.5	33.0	264	1186
12p 2.5	2.0	30.3	31.2	36.0	288	1393
16p 2.5	2.0	33.3	34.6	40.0	320	1784
20p 2.5	2.0	35.4	36.5	41.8	335	2118
24p 2.5	2.0	38.4	39.1	44.6	357	2484
27p 2.5	2.0	40.4	41.2	47.1	377	2768
36p 2.5	2.0	46.5	46.8	53.3	427	3619

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	8.1	8.8	11.3	90	166
3t 0.75	1.1	14.1	14.7	18.1	145	355
4t 0.75	1.1	15.2	16.4	19.6	157	427
7t 0.75	1.1	19.2	20.0	23.8	191	657
1t 1.5	1.5	9.1	9.8	12.5	100	211
3t 1.5	1.5	16.2	16.6	20.1	161	465
4t 1.5	1.5	17.2	18.4	21.9	175	567
7t 1.5	1.5	22.2	22.6	26.6	213	883

Marine Shorepower

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





ES

• Applications

Heavy-Duty Flexible Rubber Shorepower cables suitable for all shipboard and marine applications.

• Design Construction

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

Insulation HFFLEX X-110 Halogen Free Crosslinked Rubber

Sheath Type ST 2 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

• Sheath Colour

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 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 (mm²)	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

ES

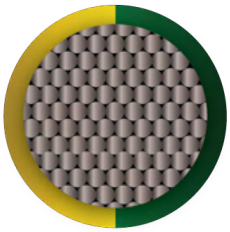
Marine Shorepower

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

UX Marine & Offshore Switchboard/Panel wire

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



EA

• Applications

Flexible Single Insulated Power cables suitable for marine and offshore applications.

• Design Construction

Conductors Flexible stranded 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
IEEE 45, IEEE 1580, IEEE 1202

• Approvals

International Type Approvals available upon request.

• Operating Temp

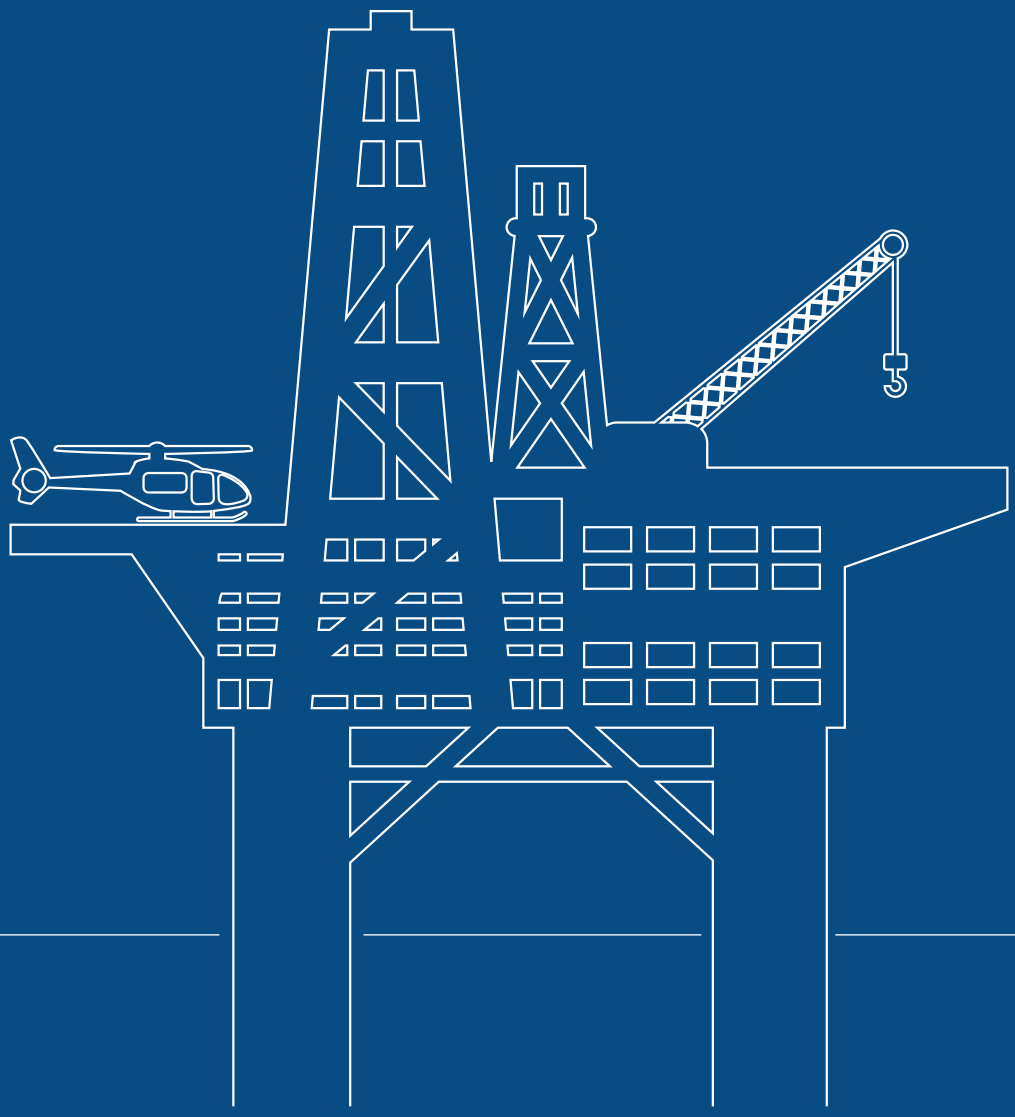
-40°C to +110°C

• Voltage Level

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

Number of Conductors (C) & Cross Section Area (mm²)	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

OFFSHORE CABLES



RFOI/U RFCI/U Offshore Braid Armoured Power & Control

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

PR

• Applications

Flexible Power & Control cables suitable for all offshore applications where mechanical or EMC 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.
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 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202
NEK TS 606

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• 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 (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	72	228
1C 16	76	5.1	9.0	10.2	12.7	96	294
1C 25	89	6.4	10.9	12.1	14.8	127	418
1C 35	98	7.8	12.3	13.6	16.3	157	532
1C 50	110	9.2	14.2	15.4	18.3	196	717
1C 70	122	10.8	16.0	17.2	20.4	242	922
1C 95	137	12.8	18.3	19.5	22.8	293	1201
1C 120	149	14.5	20.2	21.4	24.8	339	1449
1C 150	165	16.3	22.7	23.9	27.4	389	1804
1C 185	180	18.0	25.0	26.2	30.0	444	2163
1C 240	198	20.3	27.8	29.0	32.9	522	2719
1C 300	219	22.5	30.2	32.2	36.5	601	3396
1C 400	242	26.0	34.6	35.8	40.4	670	4287
1C 500	268	29.2	38.5	39.7	44.7	720	5349
1C 630	295	32.8	42.8	44.0	49.2	780	6632

PR

RFOI/U RFCI/U Offshore Braid Armoured Power & Control

0.6/1kV 110°C LSHF 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 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	20	182
2C	2.5	79	2.1	9.5	10.7	13.2	26	226
2C	4	87	2.5	10.5	11.8	14.5	34	280
2C	6	94	3.1	11.8	13.0	15.7	44	344
2C	10	109	4.1	14.0	15.2	18.1	61	481
2C	16	122	5.1	16.0	17.2	20.3	82	639
2C	25	145	6.4	19.6	20.8	24.1	108	922
2C	35	164	7.8	22.5	23.7	27.3	133	1204
3C	1.5	75	1.5	8.7	10.0	12.5	16	205
3C	2.5	83	2.1	10.1	11.3	13.8	21	259
3C	4	90	2.5	11.1	12.4	15.1	28	328
3C	6	98	3.1	12.5	13.7	16.4	36	410
3C	10	114	4.1	14.9	16.1	19.0	50	587
3C	16	128	5.1	17.0	18.2	21.3	67	797
3C	25	155	6.4	21.0	22.3	25.8	89	1182
3C	35	175	7.8	24.2	25.4	29.1	110	1556
3C	50	197	9.2	27.7	29.0	32.9	137	2119
3C	70	224	10.8	31.8	33.0	37.4	169	2784
3C	95	254	12.8	36.3	37.6	42.3	205	3668
3C	120	281	14.5	40.6	41.9	46.8	237	4495
3C	150	314	16.3	45.8	47.0	52.4	272	5652
3C	185	345	18.0	50.5	51.8	57.6	311	6810
3C	240	384	20.3	56.3	57.6	64.0	365	8300
4C	1.5	79	1.5	9.5	10.7	13.2	16	234
4C	2.5	91	2.1	11.2	12.4	15.1	21	311
4C	4	96	2.5	12.1	13.4	16.1	28	386
4C	6	106	3.1	13.6	14.8	17.7	36	494
4C	10	124	4.1	16.3	17.5	20.6	50	715
4C	16	140	5.1	18.9	20.1	23.4	67	990
4C	25	167	6.4	23.1	24.4	28.1	89	1466
4C	35	191	7.8	26.6	27.9	31.8	110	1940
4C	50	220	9.2	30.6	32.2	36.6	137	2753
4C	70	247	10.8	35.4	36.6	41.1	169	3520
4C	95	279	12.8	40.4	41.6	46.6	205	4650
4C	120	312	14.5	45.4	46.6	52.0	237	5737
4C	150	348	16.3	50.9	52.1	57.9	272	7199
4C	185	384	18.0	56.4	57.6	64.0	311	8716
5C	1.5	87	1.5	10.6	11.8	14.5	16	277
5C	2.5	91	2.1	12.2	13.5	16.2	21	358
5C	4	105	2.5	13.3	14.6	17.5	28	454
5C	6	116	3.1	15.2	16.4	19.3	36	587
5C	10	135	4.1	18.2	19.4	22.7	50	862
5C	16	155	5.1	21.1	22.3	25.8	67	1197
5C	25	186	6.4	25.9	27.1	31.0	89	1779
5C	35	211	7.8	29.8	31.0	35.2	110	2358
5C	50	242	9.2	34.5	35.7	40.3	137	3268
5C	70	275	10.8	39.6	40.8	45.8	169	4310
5C	95	312	12.8	45.4	46.6	52.0	205	5716
5C	120	347	14.5	50.8	52.0	57.8	237	7032
5C	150	389	16.3	57.2	58.4	64.8	272	8868
5C	185	428	18.0	63.3	64.5	71.4	311	10710
5C	240	475	20.3	70.5	71.7	79.2	365	13042
7C	1.5	93	1.5	11.5	12.7	15.4	12	319
10C	1.5	112	1.5	14.5	15.8	18.7	11	433
12C	1.5	116	1.5	15.1	16.4	19.3	10	481
14C	1.5	121	1.5	15.9	17.1	20.2	10	537
16C	1.5	127	1.5	16.8	18.0	21.1	9	590
19C	1.5	133	1.5	17.9	19.1	22.2	9	670
21C	1.5	141	1.5	18.9	20.2	23.5	9	711
24C	1.5	154	1.5	21.0	22.2	25.7	9	837
27C	1.5	158	1.5	21.6	22.8	26.3	9	905
33C	1.5	169	1.5	23.2	24.4	28.2	9	1057
37C	1.5	176	1.5	24.3	25.5	29.3	9	1160
7C	2.5	105	2.1	13.3	14.6	17.5	21	425
10C	2.5	128	2.1	17.0	18.2	21.3	20	581
12C	2.5	133	2.1	17.9	19.1	22.2	18	659
14C	2.5	140	2.1	18.8	20.0	23.3	18	740
16C	2.5	147	2.1	19.9	21.1	24.4	16	817
19C	2.5	156	2.1	21.2	22.4	25.9	15	940
21C	2.5	163	2.1	22.4	23.7	27.2	15	1021
24C	2.5	179	2.1	24.8	26.0	29.8	15	1166
27C	2.5	183	2.1	25.5	26.7	30.5	15	1268
33C	2.5	197	2.1	27.7	28.9	32.9	15	1501
37C	2.5	205	2.1	28.8	30.0	34.2	15	1650

BFOI/U BFCI/U Offshore Fire Resistant Braid Armoured Power & Control

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

PF

• Applications

Flexible Power & Control cables suitable for all offshore applications where circuit integrity under fire conditions, mechanical and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Flame Barrier	Halogen Free Glass Mica Tape
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Bedding	Extruded Low Smoke Halogen Free Polymer
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

• Standards

IEC 60228, IEC 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202
NEK TS 606

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Approvals

International TypeApprovals 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 (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	124	4.1	8.7	9.9	12.4	72	247
1C 16	135	5.1	9.8	11.0	13.5	96	318
1C 25	156	6.4	11.6	12.9	15.6	127	440
1C 35	172	7.8	13.1	14.3	17.2	157	560
1C 50	190	9.2	14.9	16.1	19.0	196	741
1C 70	211	10.8	16.8	18.0	21.1	242	953
1C 95	235	12.8	19.0	20.2	23.5	293	1236
1C 120	259	14.5	21.1	22.4	25.9	339	1505
1C 150	284	16.3	23.4	24.6	28.4	389	1856
1C 185	309	18.0	25.7	27.0	30.9	444	2219
1C 240	339	20.3	28.5	29.7	33.9	522	2780
1C 300	373	22.5	31.7	32.9	37.3	601	3453
1C 400	411	26.0	35.4	36.6	41.1	670	4349
1C 500	454	29.2	39.2	40.5	45.4	720	5418
1C 630	501	32.8	43.5	44.8	50.1	780	6722

PF

BFOI/U BFCI/U Offshore Fire Resistant Braid Armoured Power & Control

0.6/1kV 110°C LSHF 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 OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	134	1.5	9.7	10.9	13.4	20	218
2C	2.5	151	2.1	11.2	12.4	15.1	26	277
2C	4	159	2.5	12.0	13.2	15.9	34	325
2C	6	174	3.1	13.2	14.5	17.4	44	397
2C	10	198	4.1	15.5	16.7	19.8	61	540
2C	16	222	5.1	17.8	19.1	22.2	82	712
2C	25	260	6.4	21.2	22.4	26.0	108	1002
2C	35	291	7.8	24.2	25.4	29.1	133	1290
3C	1.5	139	1.5	10.2	11.4	13.9	16	246
3C	2.5	158	2.1	11.8	13.1	15.8	21	316
3C	4	166	2.5	12.7	13.9	16.6	28	379
3C	6	184	3.1	14.2	15.5	18.4	36	477
3C	10	208	4.1	16.4	17.7	20.8	50	655
3C	16	235	5.1	19.0	20.2	23.	67	886
3C	25	274	6.4	22.6	23.8	27.4	89	125
3C	35	309	7.8	25.7	27.0	30.9	110	1644
3C	50	347	9.2	29.3	30.5	34.7	137	2214
3C	70	392	10.8	33.4	34.6	39.2	169	2906
3C	95	441	12.8	38.1	39.3	44.1	205	3805
3C	120	488	14.5	42.4	43.6	48.8	237	4667
3C	150	542	16.3	47.3	48.6	54.2	272	5826
3C	185	595	18	52.3	53.5	59.5	311	7017
3C	240	657	20.3	58.1	59.3	65.7	365	8839
4C	1.5	153	1.5	11.3	12.6	15.3	16	293
4C	2.5	171	2.1	12.9	14.1	17.1	21	371
4C	4	182	2.5	14.1	15.3	18.2	28	458
4C	6	199	3.1	15.6	16.8	19.9	36	572
4C	10	228	4.1	18.2	19.5	22.8	50	803
4C	16	258	5.1	21.1	22.3	25.8	67	109
4C	25	301	6.4	25.1	26.3	30.1	89	1563
4C	35	340	7.8	28.6	29.8	34.0	110	2054
4C	50	381	9.2	32.5	33.8	38.1	137	2784
4C	70	431	10.8	37.1	38.3	43.1	169	3666
4C	95	487	12.8	42.3	43.5	48.7	205	4529
4C	120	539	14.5	47.1	48.3	53.9	237	5928
4C	150	601	16.3	52.8	54.1	60.1	272	7428
4C	185	660	18	58.3	59.5	66.0	311	8948
5C	1.5	164	1.5	12.4	13.7	16.4	16	335
5C	2.5	186	2.1	14.4	15.7	18.6	21	434
5C	4	199	2.5	15.5	16.8	19.9	28	538
5C	6	217	3.1	17.4	18.6	21.7	36	678
5C	10	247	4.1	20.1	21.4	24.7	50	950
5C	16	283	5.1	23.3	24.5	28.3	67	1312
5C	25	332	6.4	28.0	29.3	33.2	89	1893
5C	35	375	7.8	32.0	33.2	37.5	110	2493
5C	50	424	9.2	36.4	37.6	42.4	137	3402
5C	70	481	10.8	41.7	42.9	48.1	169	4500
5C	95	542	12.8	47.4	48.6	54.2	205	5913
5C	120	602	14.5	52.9	54.1	60.2	237	7279
5C	150	672	16.3	59.3	60.5	67.2	272	9142
5C	185	737	18	65.4	66.7	73.7	311	11010
5C	240	815	20.3	72.7	73.9	81.5	365	13921
7C	1.5	177	1.5	13.5	14.8	17.7	12	391
10C	1.5	218	1.5	17.5	18.7	21.8	11	540
12C	1.5	227	1.5	18.2	19.4	22.7	10	607
14C	1.5	237	1.5	19.1	20.3	23.7	10	671
16C	1.5	248	1.5	20.2	21.4	24.8	9	738
19C	1.5	263	1.5	21.5	22.7	26.3	9	845
21C	1.5	276	1.5	22.8	24.0	27.6	9	916
24C	1.5	302	1.5	25.2	26.4	30.2	9	1046
27C	1.5	311	1.5	26.0	27.2	31.1	9	1141
33C	1.5	336	1.5	28.2	29.4	33.6	9	1344
37C	1.5	347	1.5	29.3	30.5	34.7	9	1462
7C	2.5	201	2.1	15.7	17.0	20.1	21	510
10C	2.5	246	2.1	20.1	21.3	24.6	20	698
12C	2.5	259	2.1	21.1	22.4	25.9	18	798
14C	2.5	270	2.1	22.2	23.	27.0	18	887
16C	2.5	285	2.1	23.5	24.8	28.5	16	988
19C	2.5	300	2.1	25.0	26.3	30.0	15	1126
21C	2.5	317	2.1	26.6	27.8	31.7	15	1233
24C	2.5	348	2.1	29.4	30.6	34.8	15	1407
27C	2.5	356	2.1	30.2	31.	35.6	15	1529
33C	2.5	384	2.1	32.8	34.1	38.4	15	1808
37C	2.5	401	2.1	34.4	35.6	40.1	15	1998

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

CR

• Applications

Flexible Instrumentation cables suitable for all offshore 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

CR

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

BFOI/U BFCI/U (c) Offshore Fire Resistant Braid Armoured Collective Screened Instrumentation

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

CF

• Applications

Flexible Instrumentation cables suitable for all offshore applications where circuit integrity underfire conditions, mechanical, RFI and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Frame Barrier	Halogen Free Glass Mica Tape
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
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

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
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	9.4	10.2	12.9	103	184
2p	0.5*	0.9	10.7	11.5	14.4	116	225
4p	0.5	0.9	16.2	17.0	20.5	164	366
8p	0.5	0.9	20.7	21.5	25.6	204	563
10p	0.5	0.9	22.4	23.2	27.2	217	636
12p	0.5	0.9	24.4	25.3	29.6	237	737
16p	0.5	0.9	26.9	27.7	32.2	258	885
20p	0.5	0.9	28.4	29.2	33.9	271	1024
24p	0.5	0.9	30.1	30.9	35.8	286	1149
27p	0.5	0.9	31.8	32.6	37.7	301	1276
36p	0.5	0.9	36.0	36.8	42.3	339	1607

CF

BFOI/U BFCI/U (c) Offshore Fire Resistant 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	9.7	10.5	13.3	107	195
2p 0.75*	1.1	11.1	11.9	14.8	119	243
4p 0.75	1.1	17.1	17.9	21.4	171	406
8p 0.75	1.1	21.8	22.6	26.6	213	621
10p 0.75	1.1	23.5	24.3	28.6	229	719
12p 0.75	1.1	25.8	26.6	31.0	248	834
16p 0.75	1.1	28.4	29.2	34.0	272	1018
20p 0.75	1.1	29.8	30.6	35.5	284	1154
24p 0.75	1.1	31.9	32.7	37.8	302	1331
27p 0.75	1.1	33.5	34.3	39.6	317	1463
36p 0.75	1.1	38.0	38.8	44.4	356	1846
1p 1.0	1.3	10.0	10.8	13.6	109	207
2p 1.0*	1.3	11.5	12.3	15.3	122	261
4p 1.0	1.3	17.8	18.6	22.0	176	438
8p 1.0	1.3	22.6	23.4	27.5	220	678
10p 1.0	1.3	24.6	26.5	29.8	238	797
12p 1.0	1.3	26.8	27.6	32.1	257	916
16p 1.0	1.3	29.6	30.4	35.2	282	1122
20p 1.0	1.3	31.2	32.0	37.1	297	1308
24p 1.0	1.3	33.2	34.0	39.2	314	1480
27p 1.0	1.3	35.0	35.9	41.2	330	1641
36p 1.0	1.3	39.6	40.4	46.3	370	2081
1p 1.5	1.5	10.9	11.7	14.6	117	241
2p 1.5*	1.5	12.2	13.0	16.0	128	294
4p 1.5	1.5	19.1	19.9	23.6	189	511
8p 1.5	1.5	24.6	25.5	29.8	238	814
10p 1.5	1.5	26.7	27.5	31.9	255	950
12p 1.5	1.5	29.1	29.9	34.7	278	1106
16p 1.5	1.5	32.2	33.0	38.1	305	1362
20p 1.5	1.5	33.9	34.7	40.1	321	1596
24p 1.5	1.5	36.2	37.0	42.5	340	1833
27p 1.5	1.5	38.2	39.0	44.6	357	2015
36p 1.5	1.5	43.1	43.9	50.1	401	2564
1p 2.5	2.0	11.8	12.6	15.7	125	284
2p 2.5*	2.0	13.4	14.2	17.4	139	365
4p 2.5	2.0	21.4	22.2	26.2	209	649
8p 2.5	2.0	27.7	28.5	33.0	264	1054
10p 2.5	2.0	30.0	30.8	35.6	284	1240
12p 2.5	2.0	32.7	33.5	38.7	309	1447
16p 2.5	2.0	36.3	37.1	42.6	341	1816
20p 2.5	2.0	38.2	39.0	44.6	357	2122
24p 2.5	2.0	40.9	41.7	47.8	382	2486
27p 2.5	2.0	42.9	43.7	49.9	399	2723
36p 2.5	2.0	48.8	49.6	56.5	452	3525

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	10.4	11.2	14.0	112	215
3t 0.75	1.1	15.9	16.7	20.2	162	396
4t 0.75	1.1	17.6	18.4	21.9	175	468
7t 0.75	1.1	21.3	22.1	26.1	208	681
1t 1.5	1.5	11.4	12.2	15.2	121	264
3t 1.5	1.5	18.0	18.8	22.2	178	504
4t 1.5	1.5	19.6	20.4	24.2	194	606
7t 1.5	1.5	24.0	24.8	29.2	234	911

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

IR

• Applications

Flexible Instrumentation cables suitable for all offshore 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 (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	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

IR

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

BFOI/U BFCI/U (i&c) Offshore Fire Resistant Braid Armoured Individual & Collective Screened

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

IF

• Applications

Flexible Instrumentation cables suitable for all offshore applications where circuit integrity under fire condition, mechanical, RFI and EMC protections are required.

• Design Construction

Conductors	Flexible stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Frame Barrier	Halogen Free Glass Mica Tape
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
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

• Standards

IEC 60228, IEC 60092-376
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
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	9.1	9.9	12.6	101	178
2p 0.5	0.9	14.1	14.9	18.2	145	348
4p 0.5	0.9	16.7	17.5	21.0	168	408
8p 0.5	0.9	21.5	22.3	26.4	211	642
10p 0.5	0.9	23.3	24.1	28.5	228	748
12p 0.5	0.9	25.5	26.3	30.6	245	856
16p 0.5	0.9	28.3	29.1	33.8	271	1067
20p 0.5	0.9	29.6	30.4	35.2	282	1216
24p 0.5	0.9	31.7	32.5	37.5	300	1405
27p 0.5	0.9	33.2	34.0	39.2	314	1530
36p 0.5	0.9	37.8	38.6	44.2	354	1958

IF

BFOI/U BFCI/U (i&c) Offshore Fire Resistant Braid Armoured Individual & Collective Screened

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

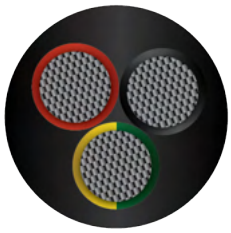
Number of Pairs (p) & Cross Section Area (mm²)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Minimum Bending Radius (mm)	Approx Weight (kg/km)
1p 0.75	1.1	9.5	10.3	13.0	104	191
2p 0.75	1.1	14.7	15.6	18.8	150	378
4p 0.75	1.1	17.7	18.5	21.9	175	448
8p 0.75	1.1	22.5	23.3	27.4	219	704
10p 0.75	1.1	24.6	25.5	29.8	238	831
12p 0.75	1.1	26.8	27.6	32.0	256	956
16p 0.75	1.1	29.6	30.4	35.2	282	1179
20p 0.75	1.1	31.2	32.0	37.1	297	1379
24p 0.75	1.1	33.2	34.0	39.2	314	1564
27p 0.75	1.1	35.1	36.0	41.2	330	1739
36p 0.75	1.1	39.7	40.5	46.4	371	2212
1p 1.0	1.3	9.8	10.6	13.3	107	203
2p 1.0	1.3	15.3	16.1	19.3	154	411
4p 1.0	1.3	18.0	18.8	22.3	179	484
8p 1.0	1.3	23.4	24.2	28.6	229	789
10p 1.0	1.3	25.7	26.5	30.7	246	921
12p 1.0	1.3	28.0	28.8	33.3	267	1074
16p 1.0	1.3	31.0	31.8	36.9	295	1343
20p 1.0	1.3	32.4	33.2	38.3	306	1546
24p 1.0	1.3	34.7	35.6	40.9	327	1794
27p 1.0	1.3	36.6	37.4	42.8	343	1979
36p 1.0	1.3	41.5	42.3	48.4	387	2539
1p 1.5	1.5	10.6	11.4	14.4	116	237
2p 1.5	1.5	16.3	17.1	20.6	165	477
4p 1.5	1.5	19.6	20.4	24.2	194	564
8p 1.5	1.5	25.5	26.3	30.5	244	917
10p 1.5	1.5	27.8	28.6	33.1	265	1089
12p 1.5	1.5	30.1	30.9	35.8	286	1257
16p 1.5	1.5	33.4	34.2	39.5	316	1581
20p 1.5	1.5	35.2	36.1	41.3	330	1843
24p 1.5	1.5	37.7	38.5	44.1	353	2141
27p 1.5	1.5	39.6	40.4	46.3	370	2364
36p 1.5	1.5	44.9	45.8	52.1	417	3040
1p 2.5	2.0	11.6	12.4	15.5	124	278
2p 2.5	2.0	18.2	19.0	22.6	181	604
4p 2.5	2.0	21.9	22.7	26.7	213	712
8p 2.5	2.0	28.5	29.3	34.1	273	1193
10p 2.5	2.0	31.1	31.9	37.0	296	1422
12p 2.5	2.0	33.9	34.7	40.1	321	1660
16p 2.5	2.0	37.7	38.5	44.0	352	2074
20p 2.5	2.0	39.5	40.3	46.1	368	2439
24p 2.5	2.0	42.2	43.0	49.2	393	2842
27p 2.5	2.0	44.6	45.5	51.8	415	3161
36p 2.5	2.0	50.4	51.2	58.1	465	4056

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	10.0	10.8	13.5	108	205
3t 0.75	1.1	16.4	17.2	20.6	165	428
4t 0.75	1.1	18.1	18.9	22.4	179	512
7t 0.75	1.1	22.0	22.8	26.8	214	754
1t 1.5	1.5	11.4	12.2	15.2	121	264
3t 1.5	1.5	18.8	19.6	23.4	187	561
4t 1.5	1.5	20.9	21.7	25.7	205	687
7t 1.5	1.5	25.4	26.2	30.5	244	1012

CLASS 2 CABLES

RI/U Power and Control

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



SH2

• Applications

Power and Control cables suitable for all shipboard and marine applications.

• Design Construction

Conductors Class 2 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.

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, Thermoplastic, 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

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Standards

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

• 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 (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	26	3.1	4.6	6.6	52	88
1C 10	31	4.2	5.8	7.8	72	134
1C 16	36	5.3	6.8	9.1	96	214
1C 25	43	6.6	8.5	10.7	127	286
1C 35	49	7.9	9.8	12.2	157	404
1C 50	54	9.0	11.0	13.5	196	534
1C 70	64	11.0	13.3	16.0	242	748
1C 95	71	12.6	14.8	17.7	293	999
1C 120	81	14.5	17.1	20.2	339	1288
1C 150	89	16.2	19.1	22.3	389	1627
1C 185	100	18.0	21.5	25.0	444	1999
1C 240	134	19.8	23.3	26.7	522	2393
1C 300	148	22.3	26.0	29.7	601	2977
1C 400	169	25.7	29.7	33.8	690	3965
1C 500	188	28.8	33.3	37.6	780	4967
1C 630	212	32.8	37.6	42.3	890	6388

SH2

RI/U Power and Control

0.6/1kV 110°C LSHF 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	27	1.6	6.7	20	65
2c	2.5	37	2.0	9.1	26	98
2c	4	41	2.6	10.2	34	133
2c	6	46	3.1	11.6	44	183
2c	10	57	4.2	14.2	61	285
2c	16	65	5.3	16.3	82	440
2c	25	80	6.6	20.1	108	606
2c	35	91	7.9	22.8	133	848
2c	50	128	9.0	25.6	167	1126
2c	70	153	11.0	30.5	206	1581
2c	95	169	12.6	33.8	249	2095
2c	120	194	14.5	38.8	288	2707
2c	150	214	16.2	42.8	331	3400
3c	1.5	35	1.6	8.8	16	97
3c	2.5	39	2.0	9.7	21	129
3c	4	43	2.6	10.9	28	179
3c	6	49	3.1	12.3	36	248
3c	10	61	4.2	15.2	50	393
3c	16	71	5.3	17.6	67	628
3c	25	86	6.6	21.4	89	853
3c	35	97	7.9	24.4	110	1204
3c	50	138	9.0	27.5	137	1621
3c	70	164	11.0	32.9	169	2279
3c	95	182	12.6	36.3	205	3034
3c	120	209	14.5	41.7	237	3920
3c	150	230	16.2	46.0	272	4936
3c	185	312	18.0	52.0	311	6105
3c	240	336	19.8	55.9	365	7328
4c	1.5	38	1.6	9.6	16	120
4c	2.5	42	2.0	10.6	21	162
4c	4	48	2.6	12.1	28	233
4c	6	54	3.1	13.5	36	317
4c	10	68	4.2	16.9	50	513
4c	16	78	5.3	19.6	67	824
4c	25	95	6.6	23.8	89	1118
4c	35	135	7.9	27.1	110	1581
4c	50	153	9.0	30.6	137	2129
4c	70	183	11.0	36.5	169	2994
4c	95	202	12.6	40.4	205	3993
4c	120	233	14.5	46.6	237	5182
4c	150	308	16.2	51.4	272	6529
4c	185	348	18.0	58.0	311	8066
4c	240	376	19.8	62.6	365	9716
5c	1.5	42	1.6	10.4	16	143
5c	2.5	47	2.0	11.8	21	200
5c	4	53	2.6	13.2	28	282
5c	6	60	3.1	15.0	36	394
5c	10	74	4.2	18.5	50	627
5c	16	86	5.3	21.5	67	1012
5c	25	132	6.6	26.4	89	1387
5c	35	151	7.9	30.2	110	1978
5c	50	169	9.0	33.9	137	2644
5c	70	202	11.0	40.5	169	3717
5c	95	225	12.6	45.0	205	4984
5c	120	311	14.5	51.8	237	6461
5c	150	344	16.2	57.3	272	8168
5c	185	387	18.0	64.5	311	10049
5c	240	417	19.8	69.5	365	12103

RFOI/U RFCI/U Braided Power and Control

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

SB2

• Applications

Power and Control cables suitable for all shipboard and marine applications where mechanical and EMC protections are required.

• Design Construction

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

• Insulation Color To customer specification

• Sheath Colour To customer specification

• 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 (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	110	3.1	4.6	5.4	7.0	9.2	52	158
1C	10	125	4.2	5.8	6.6	8.2	10.4	72	216
1C	16	140	5.3	6.8	7.6	9.2	11.7	96	307
1C	25	160	6.6	8.5	10.6	10.9	13.4	127	394
1C	35	178	7.9	9.8	11.8	12.2	14.8	157	526
1C	50	193	9.0	11.0	11.8	13.4	16.1	196	667
1C	70	223	11.0	13.3	14.1	15.7	18.6	242	904
1C	95	244	12.6	14.8	15.6	17.2	20.3	293	1171
1C	120	274	14.5	17.1	17.9	19.5	22.8	339	1483
1C	150	299	16.2	19.1	19.9	21.5	24.9	389	1840
1C	185	331	18.0	21.5	22.3	23.9	27.6	444	2238
1C	240	352	19.8	23.3	24.1	25.7	29.3	522	2648
1C	300	387	22.3	26.0	26.8	28.4	32.3	601	3258
1C	400	437	25.7	29.7	30.5	32.1	36.4	690	4283
1C	500	482	28.8	33.3	34.1	35.7	40.2	780	5319
1C	630	539	32.8	37.6	38.4	40.0	44.9	890	6784

SB2

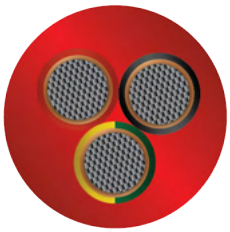
RFOI/U RFCI/U Braided Power and Control

0.6/1kV 110°C LSHF 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	128	1.6	6.9	8.5	10.7	20	159
2C	2.5	141	2.0	7.7	9.3	11.7	26	187
2C	4	154	2.6	8.8	10.4	12.8	34	233
2C	6	170	3.1	9.9	11.5	14.2	44	294
2C	10	202	4.2	12.4	14.0	16.8	61	421
2C	16	227	5.3	14.5	16.1	18.9	82	596
2C	25	272	6.6	17.8	19.4	22.7	108	796
2C	35	305	7.9	20.3	21.9	25.4	133	1064
2C	50	338	9.0	22.9	24.5	28.2	167	1367
2C	70	398	11.0	27.5	29.1	33.1	206	1887
2C	95	436	12.6	30.5	32.1	36.4	249	2412
2C	120	496	14.5	35.1	36.7	41.4	288	186
2C	150	545	16.2	38.9	40.5	45.4	331	224
3C	1.5	137	1.6	7.3	8.9	11.4	16	186
3C	2.5	148	2.0	8.2	9.8	12.3	21	224
3C	4	168	2.6	9.4	11.0	13.5	28	285
3C	6	179	3.1	10.6	12.2	14.9	36	367
3C	10	213	4.2	13.3	14.9	17.8	50	538
3C	16	243	5.3	15.6	17.2	20.2	67	796
3C	25	288	6.6	19.2	20.8	24.0	89	1056
3C	35	323	7.9	21.9	23.5	27.0	110	1436
3C	50	362	9.0	24.7	26.3	30.1	137	1917
3C	70	423	11.0	29.6	31.2	35.3	169	2576
3C	95	467	12.6	32.9	34.5	39.0	205	3374
3C	120	532	14.5	37.8	39.4	44.3	237	4310
3C	150	584	16.2	42.0	43.6	48.6	272	5367
3C	185	656	18.0	47.3	48.9	54.6	311	6591
3C	240	703	19.8	51.1	52.7	58.5	365	7719
4C	1.5	146	1.6	8.1	9.7	12.2	16	213
4C	2.5	158	2.0	9.1	10.7	13.2	21	265
4C	4	176	2.6	10.5	12.1	14.7	28	350
4C	6	193	3.1	11.8	13.4	16.1	36	447
4C	10	234	4.2	14.8	16.4	19.5	50	674
4C	16	267	5.3	17.3	18.9	22.2	67	1010
4C	25	317	6.6	21.4	23.0	26.4	89	1343
4C	35	356	7.9	24.4	26.0	29.7	110	1837
4C	50	398	9.0	27.5	29.1	33.2	137	2417
4C	70	470	11.0	33.1	34.7	39.2	169	3336
4C	95	516	12.6	36.7	38.3	43.0	205	4372
4C	120	590	14.5	42.3	43.9	49.2	237	5617
4C	150	648	16.2	46.9	48.5	54.0	272	7009
4C	185	728	18.0	53.0	54.6	60.6	311	8607
4C	240	780	19.8	57.1	58.7	65.0	365	10267
5C	1.5	156	1.6	9.0	10.6	13.0	16	244
5C	2.5	172	2.0	10.1	11.7	14.4	21	314
5C	4	190	2.6	11.6	13.2	15.8	28	410
5C	6	211	3.1	13.1	14.7	17.6	36	537
5C	10	253	4.2	16.4	18.0	21.1	50	803
5C	16	289	5.3	19.3	20.9	24.1	67	1216
5C	25	348	6.6	23.7	25.3	29.0	89	1636
5C	35	394	7.9	27.2	28.8	32.8	110	2262
5C	50	438	9.0	30.6	32.2	36.5	137	2962
5C	70	517	11.0	36.8	38.4	43.1	169	4097
5C	95	571	12.6	40.9	42.5	47.6	205	5404
5C	120	650	14.5	47.1	48.7	54.2	237	6918
5C	150	719	16.2	52.3	53.9	60.0	272	8703
5C	185	805	18.0	59.0	60.6	67.1	311	10650
5C	240	865	19.8	63.6	65.2	72.1	365	12751

BI/U Fire Resistant Power and Control

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



SC2

• Applications

Power and Control cables suitable for all shipboard and marine applications where circuit integrity is required under fire conditions.

• Design Construction

Conductors	Class 2 stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Flame Barrier	Halogen Free Glass Mica Tape
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
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

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• Standards

IEC 60228, IEC 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• 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 (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	59	3.1	5.3	7.3	52	122
1C 10	70	4.2	6.5	8.8	72	183
1C 16	78	5.3	7.6	9.8	96	268
1C 25	93	6.6	9.2	11.7	127	356
1C 35	103	7.9	10.5	12.9	157	480
1C 50	115	9.0	11.8	14.4	196	626
1C 70	135	11.0	14.1	16.9	242	860
1C 95	147	12.6	15.6	18.4	293	1116
1C 120	167	14.5	17.9	20.9	339	1437
1C 150	184	16.2	19.8	23.0	389	1790
1C 185	206	18.0	22.3	25.7	444	2183
1C 240	221	19.8	24.0	27.7	522	2604
1C 300	245	22.3	26.7	30.6	601	3213
1C 400	276	25.7	30.4	34.5	690	4219
1C 500	308	28.8	34.0	38.5	780	5269
1C 630	344	32.8	38.4	43.0	890	6711

SC2

BI/U Fire Resistant Power and Control

0.6/1kV 110°C LSHF 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	77	1.6	9.6	20	121
2C	2.5	85	2.0	10.6	26	149
2C	4	95	2.6	11.9	34	199
2C	6	104	3.1	13.0	44	253
2C	10	125	4.2	15.7	61	377
2C	16	144	5.3	18.0	82	558
2C	25	171	6.6	21.3	108	738
2C	35	191	7.9	23.9	133	1002
2C	50	212	9.0	26.5	167	1298
2C	70	251	11.0	31.4	206	1789
2C	95	277	12.6	34.6	249	2329
2C	120	316	14.5	39.5	288	3003
2C	150	349	16.2	43.6	331	3745
3C	1.5	82	1.6	10.2	16	163
3C	2.5	91	2.0	11.4	21	208
3C	4	101	2.6	12.6	28	272
3C	6	112	3.1	14.0	36	357
3C	10	135	4.2	16.9	50	535
3C	16	152	5.3	19.0	67	790
3C	25	183	6.6	22.9	89	1058
3C	35	206	7.9	25.7	110	1442
3C	50	228	9.0	28.5	137	1875
3C	70	270	11.0	33.7	169	2587
3C	95	297	12.6	37.1	205	3380
3C	120	339	14.5	42.4	237	4360
3C	150	375	16.2	46.8	272	5442
3C	185	420	18.0	52.5	311	6648
3C	240	450	19.8	56.3	365	7913
4C	1.5	91	1.6	11.3	16	211
4C	2.5	100	2.0	12.5	21	264
4C	4	112	2.6	14.0	28	355
4C	6	123	3.1	15.3	36	459
4C	10	148	4.2	18.5	50	691
4C	16	169	5.3	21.1	67	1038
4C	25	203	6.6	25.4	89	1388
4C	35	228	7.9	28.5	110	1895
4C	50	253	9.0	31.6	137	2467
4C	70	300	11.0	37.4	169	3404
4C	95	331	12.6	41.4	205	4474
4C	120	378	24.5	47.2	237	5768
4C	150	417	16.2	52.2	272	7197
4C	185	468	18.0	58.5	311	8788
4C	240	503	19.8	62.9	365	10495
5C	1.5	99	1.6	12.4	16	256
5C	2.5	111	2.0	13.9	21	328
5C	4	123	2.6	15.4	28	433
5C	6	137	3.1	17.1	36	570
5C	10	165	4.2	20.6	50	859
5C	16	189	5.3	23.6	67	1291
5C	25	227	6.6	28.4	89	1724
5C	35	255	7.9	31.9	110	2357
5C	50	285	9.0	35.6	137	3086
5C	70	337	11.0	42.1	169	4253
5C	95	372	12.6	46.5	205	5587
5C	120	424	14.5	53.0	237	7200
5C	150	468	16.2	58.5	272	8981
5C	185	526	18.0	65.7	311	10993
5C	240	566	19.8	70.7	365	13122

BFOI/U BFCI/U Fire Resistant Braided Power and Control

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

SR2

• Applications

Flexible Power and Control cables suitable for all shipboard and marine applications where circuit integrity under fire conditions, mechanical and EMC protections are required.

• Design Construction

Conductors	Class 2 stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Flame Barrier	Halogen Free Glass Mica Tape
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
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

• Standards

IEC 60228, IEC 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• 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 (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	114	3.1	5.3	6.1	7.3	9.5	52	194
1C	10	129	4.2	6.5	7.3	8.5	10.8	72	262
1C	16	144	5.3	7.6	8.4	9.6	12.0	96	362
1C	25	164	6.6	9.2	10.0	11.2	13.7	127	460
1C	35	182	7.9	10.5	11.3	12.5	15.1	157	603
1C	50	199	9.0	11.8	12.6	13.8	16.6	196	762
1C	70	227	11.0	14.1	14.9	16.1	18.9	242	1008
1C	95	248	12.6	15.6	16.4	17.6	20.6	293	1288
1C	120	277	14.5	17.9	18.7	19.9	23.1	339	1631
1C	150	303	16.2	19.8	20.6	21.8	25.2	389	2003
1C	185	335	18.0	22.3	23.1	24.3	27.9	444	2421
1C	240	356	19.8	24.0	24.8	26.0	29.7	522	2845
1C	300	391	22.3	26.7	27.5	28.7	32.6	601	3479
1C	400	441	25.7	30.4	31.2	32.4	36.7	690	4537
1C	500	486	28.8	34.0	34.8	36.0	40.5	780	5603
1C	630	543	32.8	38.4	39.2	40.4	45.2	890	7106

SR2

BFOI/U BFCI/U Fire Resistant Braided Power and Control

0.6/1kV 110°C LSHF 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 OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	142	1.6	8.2	9.4	11.8	20	213
2C	2.5	153	2.0	9.1	10.3	12.8	26	250
2C	4	169	2.6	10.2	11.4	14.1	34	311
2C	6	183	3.1	11.4	12.6	15.2	44	376
2C	10	215	4.2	13.8	15.0	17.9	61	525
2C	16	241	5.3	15.8	17.0	20.1	82	725
2C	25	282	6.6	19.1	20.3	23.5	108	937
2C	35	313	7.9	21.5	22.7	26.1	133	1225
2C	50	345	9.0	23.9	25.1	28.7	167	1545
2C	70	403	11.0	28.4	29.6	33.6	206	2081
2C	95	441	12.6	31.3	32.5	36.8	249	2650
2C	120	500	14.5	35.8	37.0	41.7	288	3368
2C	150	548	16.2	39.6	40.8	45.6	331	4127
3C	1.5	149	1.6	8.8	10.0	12.4	16	260
3C	2.5	161	2.0	9.8	11.0	13.4	21	309
3C	4	177	2.6	10.9	12.1	14.8	28	391
3C	6	192	3.1	12.1	13.3	16.0	36	481
3C	10	226	4.2	14.8	16.0	18.9	50	684
3C	16	255	5.3	17.0	18.2	21.2	67	968
3C	25	301	6.6	20.4	21.6	25.1	89	1271
3C	35	335	7.9	23.0	24.2	27.9	110	1681
3C	50	368	9.0	25.6	26.8	30.7	137	2140
3C	70	431	11.0	30.5	31.7	35.9	169	2899
3C	95	472	12.6	33.6	34.8	39.3	205	3724
3C	120	535	14.5	38.5	39.7	44.6	237	4752
3C	150	586	16.2	42.5	43.7	48.8	272	5851
3C	185	656	18.0	47.8	49.0	54.7	311	7132
3C	240	702	19.8	51.4	52.6	58.5	365	8433
4C	1.5	160	1.6	9.7	10.9	13.3	16	314
4C	2.5	176	2.0	10.8	12.0	14.7	21	384
4C	4	191	2.6	12.1	13.3	16.0	28	481
4C	6	210	3.1	13.5	14.7	17.5	36	606
4C	10	248	4.2	16.4	17.6	20.7	50	870
4C	16	280	5.3	18.9	20.1	23.3	67	1243
4C	25	331	6.6	22.7	23.9	27.6	89	1636
4C	35	369	7.9	25.6	26.8	30.7	110	2175
4C	50	406	9.0	28.6	29.8	33.8	137	2780
4C	70	476	11.0	34.0	35.2	39.7	169	3778
4C	95	521	12.6	37.5	38.7	43.4	205	4869
4C	120	593	14.5	42.9	44.1	49.4	237	6248
4C	150	650	16.2	47.5	48.7	54.2	272	7706
4C	185	728	18.0	53.4	54.6	60.7	311	9396
4C	240	779	19.8	57.4	58.6	64.9	365	11124
5C	1.5	176	1.6	10.8	12.0	14.6	16	379
5C	2.5	191	2.0	12.1	13.3	15.9	21	458
5C	4	211	2.6	13.5	14.7	17.6	28	587
5C	6	232	3.1	15.1	16.3	19.3	36	742
5C	10	274	4.2	18.4	19.6	22.8	50	1070
5C	16	310	5.3	21.1	22.3	25.8	67	1535
5C	25	367	6.6	25.5	26.7	30.6	89	2024
5C	35	409	7.9	28.8	30.0	34.1	110	2699
5C	50	451	9.0	32.1	33.3	37.6	137	3456
5C	70	531	11.0	38.2	39.4	44.3	169	4726
5C	95	582	12.6	42.2	43.4	48.5	205	6096
5C	120	662	14.5	48.3	49.5	55.2	237	7824
5C	150	728	16.2	53.4	54.6	60.7	272	9686
5C	185	813	18.0	60.0	61.2	67.7	311	11777
5C	240	872	19.8	64.6	65.8	72.7	365	13982

UX Marine & Offshore Switchboard/Panel wire

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

EA2

• Applications

Flexible Single Insulated Power cables suitable for marine and offshore applications.

• Design Construction

Conductors Class 2 stranded 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 60992-350,
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

• 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 (mm²)	Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Minimum Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
1C 0.75	10	1.1	2.5	13	13
1C 1.0	11	1.3	2.7	18	16
1C 1.5	12	1.6	3.0	23	22
1C 2.5	14	2.0	3.4	30	31
1C 4	16	2.6	4.0	40	47
1C 6	18	3.1	4.6	52	66
1C 10	23	4.2	5.8	72	103
1C 16	27	5.3	6.8	96	174
1C 25	34	6.6	8.5	127	237
1C 35	39	7.9	9.8	157	343
1C 50	44	9.0	11.0	196	466
1C 70	53	11.0	13.3	242	660
1C 95	59	12.6	14.8	293	894
1C 120	69	14.5	17.1	339	1159
1C 150	76	16.2	19.1	389	1473
1C 185	86	18.0	21.5	444	1815
1C 240	93	19.8	23.3	522	2196
1C 300	130	22.3	26.0	601	2744
1C 400	149	25.7	29.7	670	3668
1C 500	166	28.8	33.3	720	4619
1C 630	188	32.8	37.6	780	5958

RFOI/U RFCI/U Offshore Braid Armoured Power & Control

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

PR2

• Applications

Flexible Power & Control cables suitable for all offshore applications where mechanical or EMC protection is required.

• Design Construction

Conductors Class 2 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.

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 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60754-1&2*, IEC 61034-1&2*
(*For L, F and M Type Only)
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202
NEK TS 606

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• 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 (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	118	3.1	4.6	6.6	7.6	9.9	52	187
1C 10	135	4.2	5.8	7.8	8.8	11.3	72	255
1C 16	150	5.3	6.8	9.1	10.1	12.5	96	351
1C 25	173	6.6	8.5	10.7	11.7	14.4	127	452
1C 35	190	7.9	9.8	12.2	13.2	15.9	157	590
1C 50	208	9.0	11.0	13.5	14.5	17.4	196	746
1C 70	241	11.0	13.3	16.0	17.0	20.0	242	1006
1C 95	261	12.6	14.8	17.7	18.7	21.8	393	1283
1C 120	294	14.5	17.1	20.2	21.2	24.5	339	1620
1C 150	321	16.2	19.1	22.3	23.3	26.8	389	2004
1C 185	356	18.0	21.5	25.0	26.0	29.7	444	2671
1C 240	379	19.8	23.3	26.7	27.7	31.6	522	2870
1C 300	417	22.3	26.0	29.7	30.7	34.7	601	3519
1C 400	471	25.7	29.7	33.8	34.8	39.3	690	4616
1C 500	519	28.8	33.3	37.6	38.6	43.2	780	5706
1C 630	581	32.8	37.6	42.3	43.3	48.4	890	7263

PR2

RFOI/U RFCI/U Offshore Braid Armoured Power & Control

0.6/1kV 110°C LSHF 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 Bending (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	146	1.6	8.1	9.7	12.2	20	199
2C	2.5	158	2.6	9.1	10.7	13.2	26	239
2C	4	174	2.6	10.2	11.8	14.5	34	296
2C	6	190	3.1	11.6	13.2	15.8	44	364
2C	10	224	4.2	14.2	15.8	18.7	61	512
2C	16	251	5.3	16.3	17.9	20.9	82	706
2C	25	299	6.6	19.9	21.5	25.0	108	948
2C	35	333	7.9	22.5	24.1	27.8	133	1244
2C	50	367	9.0	25.1	26.7	30.6	167	1578
2C	70	437	11.0	30.5	32.1	36.4	206	2162
2C	95	478	12.6	33.8	35.4	39.8	249	2752
2C	120	543	14.5	38.8	40.4	45.2	288	3498
2C	150	596	16.2	42.8	44.4	49.7	331	4315
3C	1.5	154	1.6	8.8	10.4	12.8	16	232
3C	2.5	167	2.0	9.7	11.3	13.9	21	284
3C	4	181	2.6	10.8	12.4	15.1	28	350
3C	6	200	3.1	12.3	13.9	16.7	36	447
3C	10	237	4.2	15.1	16.7	19.8	50	642
3C	16	268	5.3	17.5	19.1	22.4	67	923
3C	25	315	6.6	21.2	22.8	26.2	89	1215
3C	35	351	7.9	24.0	25.6	29.2	110	1623
3C	50	387	9.0	26.8	28.4	32.2	137	2086
3C	70	455	11.0	32.0	33.6	37.9	169	2863
3C	95	503	12.6	35.6	37.2	41.9	205	3736
3C	120	568	14.5	40.6	42.2	47.3	237	4740
3C	150	626	16.2	45.1	46.7	52.2	272	5911
3C	185	699	18.0	50.8	52.4	58.3	311	7225
3C	240	752	19.8	54.8	56.4	62.7	365	8617
4C	1.5	163	1.6	9.5	11.1	13.6	16	265
4C	2.5	177	2.0	10.5	12.1	14.8	21	328
4C	4	195	2.6	12.0	13.6	16.3	28	420
4C	6	214	3.1	13.4	15.0	17.8	36	531
4C	10	257	4.2	16.8	18.4	21.4	50	785
4C	16	291	5.3	19.4	21.0	24.3	67	1146
4C	25	345	6.6	23.5	25.1	28.8	89	1528
4C	35	385	7.9	26.6	28.2	32.1	110	2055
4C	50	427	9.0	29.7	31.3	35.6	137	2673
4C	70	504	11.0	35.7	37.3	42.0	169	3695
4C	95	552	12.6	39.5	41.1	46.0	205	4784
4C	120	629	14.5	45.3	46.9	52.4	237	6133
4C	150	693	16.2	50.3	51.9	57.8	272	7653
4C	185	773	18.0	56.5	58.1	64.5	311	9355
4C	240	832	19.8	61.0	62.6	69.3	365	11164
5C	1.5	176	1.6	10.4	12.0	14.7	16	308
5C	2.5	192	2.0	11.8	13.4	16.0	21	384
5C	4	212	2.6	13.2	14.8	17.7	28	494
5C	6	235	3.1	15.0	16.6	19.6	36	640
5C	10	280	4.2	18.5	20.1	23.4	50	936
5C	16	318	5.3	21.5	23.1	26.5	67	1378
5C	25	381	6.6	26.2	27.8	31.7	89	1856
5C	35	427	7.9	29.7	31.3	35.6	110	2523
5C	50	474	9.0	33.5	35.1	39.5	137	3284
5C	70	560	11.0	40.0	41.6	46.6	169	4538
5C	95	615	12.6	44.4	46.0	51.3	205	5911
5C	120	70	14.5	50.9	52.5	58.4	237	7572
5C	150	771	16.2	56.4	58.0	64.3	272	9450
5C	185	866	18.0	63.6	65.2	72.1	311	11616
5C	240	930	19.8	68.6	70.2	77.5	365	13856

BFOI/U BFCI/U Offshore Fire Resistant Braid Armoured Power & Control

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

PF2

• Applications

Power & Control cables suitable for all offshore applications where circuit integrity under fire conditions, mechanical and EMC protections are required.

• Design Construction

Conductors	Class 2 stranded plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.
Flame Barrier	Halogen Free Glass Mica Tape
Insulation	HFFLEX X-110 Halogen Free HEPR. Water resistant. Excellent dielectric strength.
Bedding	Extruded Low Smoke Halogen Free Polymer
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

• Standards

IEC 60228, IEC 60502-1, IEC 60092-353
IEC 60332-1, IEC 60332-3-22 CAT A
IEC 60331-1, IEC 60331-2, IEC 60331-21
IEC 60754-1&2, IEC 61034-1&2
AS/NZS 1125, AS/NZS 5000.1
IEEE 45, IEEE 1580, IEEE 1202
NEK TS 606

• Insulation Color

To customer specification

• Sheath Colour

To customer specification

• 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 (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	129	3.1	5.3	7.3	8.5	10.8	52	232
1C 10	149	4.2	6.5	8.8	10.0	12.4	72	317
1C 16	161	5.3	7.6	9.8	11.0	13.5	96	416
1C 25	186	6.6	9.2	11.7	12.9	15.5	127	536
1C 35	204	7.9	10.5	12.9	14.1	17.0	157	686
1C 50	222	9.0	11.8	14.4	15.6	18.5	196	853
1C 70	254	11.0	14.1	16.9	18.1	21.2	242	1133
1C 95	275	12.6	15.6	18.4	19.6	22.9	293	1423
1C 120	307	14.5	17.9	20.9	22.1	25.6	339	1793
1C 150	335	16.2	19.8	23.0	24.2	27.9	389	2193
1C 185	370	18.0	22.3	25.7	26.9	30.8	444	2645
1C 240	395	19.8	24.0	27.7	28.9	32.9	522	3114
1C 300	433	22.3	26.7	30.6	31.8	36.1	601	3791
1C 400	482	25.7	30.4	34.5	35.7	40.2	690	4885
1C 500	535	28.8	34.0	38.5	39.7	44.6	780	6050
1C 630	594	32.8	38.4	43.0	44.2	49.5	890	7625

PF2

BFOI/U BFCI/U Offshore Fire Resistant Braid Armoured Power & Control

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

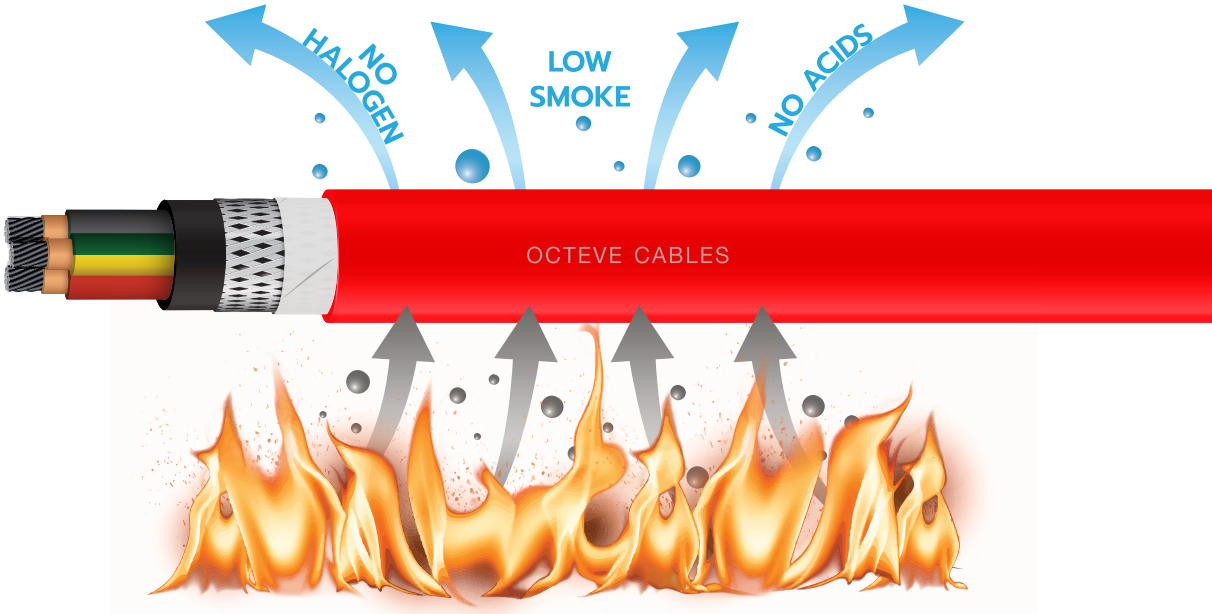
Number of Conductors (C) & Cross Section Area (mm²)		Minimum Bending Radius (mm)	Nominal Conductor Diameter (mm)	Nominal OD Over Bedding (mm)	Nominal OD Over Braid (mm)	Nominal Overall Diameter (mm)	Current Rating* (Amps)	Approx Weight (kg/km)
2C	1.5	160	1.6	9.6	10.8	13.3	20	267
2C	2.5	173	2.0	10.6	11.8	14.4	26	314
2C	4	189	2.6	11.9	13.1	15.7	34	382
2C	6	205	3.1	13.0	14.2	17.1	44	460
2C	10	239	4.2	15.7	16.9	19.9	61	632
2C	16	268	5.3	17.9	19.1	22.4	82	856
2C	25	312	6.6	21.3	22.5	26.0	108	1101
2C	35	345	7.9	23.9	25.1	28.8	133	1419
2C	50	379	9.0	26.5	27.7	31.6	167	1773
2C	70	447	11.0	31.8	33.0	37.3	206	2378
2C	95	488	12.6	35.0	36.2	40.7	249	2993
2C	120	550	14.5	39.8	41.0	45.9	288	3778
2C	150	606	16.2	44.0	45.2	50.5	331	4647
3C	1.5	169	1.6	10.2	11.4	14.1	16	322
3C	2.5	183	2.0	11.4	12.6	15.3	21	384
3C	4	200	2.6	12.6	13.8	16.6	28	472
3C	6	217	3.1	14.0	15.2	18.1	36	578
3C	10	253	4.2	16.9	18.1	21.1	50	808
3C	16	282	5.3	19.0	20.2	23.5	67	1105
3C	25	333	6.6	22.9	24.1	27.8	89	1459
3C	35	369	7.9	25.7	26.9	30.8	110	1904
3C	50	405	9.0	28.5	29.7	33.8	137	2399
3C	70	168	11.0	33.3	34.5	39.0	169	3199
3C	95	514	12.6	36.9	38.1	42.8	205	4093
3C	120	579	14.5	42.0	43.2	48.2	237	5190
3C	150	635	16.2	46.2	47.4	52.9	272	6379
3C	185	708	18.0	51.9	53.1	59.0	311	7749
3C	240	758	19.8	55.7	56.9	63.2	365	9152
4C	1.5	182	1.6	11.3	12.5	15.2	16	386
4C	2.5	196	2.0	12.5	13.7	16.3	21	454
4C	4	216	2.6	14.0	15.2	18.0	28	575
4C	6	235	3.1	15.3	16.5	19.6	36	707
4C	10	275	4.2	18.5	19.7	23.0	50	997
4C	16	309	5.3	21.1	22.3	25.8	67	1396
4C	25	363	6.6	25.2	26.4	30.3	89	1827
4C	35	403	7.9	28.3	29.5	33.6	110	2400
4C	50	443	9.0	31.4	32.6	36.9	137	3041
4C	70	518	11.0	37.2	38.4	43.1	169	4118
4C	95	568	12.6	41.0	42.2	47.3	205	5280
4C	120	640	14.5	46.6	47.8	53.3	237	6706
4C	150	704	16.2	51.6	52.8	58.7	272	8283
4C	185	787	18.0	57.8	59.0	65.5	311	10092
4C	240	840	19.8	62.1	63.3	70.0	365	11892
5C	1.5	195	1.6	12.4	13.6	16.3	16	446
5C	2.5	216	2.0	13.9	15.1	18.0	21	547
5C	4	235	2.6	15.4	16.6	19.6	28	682
5C	6	256	3.1	17.1	18.3	21.4	36	845
5C	10	304	4.2	20.6	21.8	25.3	50	1209
5C	16	342	5.3	23.6	24.8	28.5	67	1700
5C	25	401	6.6	28.2	29.4	33.4	89	2225
5C	35	446	7.9	31.7	32.9	37.1	110	2932
5C	50	493	9.0	35.2	36.4	41.0	137	3742
5C	70	575	11.0	41.7	42.9	48.0	169	5067
5C	95	631	12.6	45.9	47.1	52.6	205	6504
5C	120	714	14.5	52.4	53.6	58.5	237	8293
5C	150	787	16.2	57.9	59.1	65.6	272	10273
5C	185	876	18.0	64.9	66.1	73.0	311	12471
5C	240	938	19.8	69.7	70.9	78.2	365	14740

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

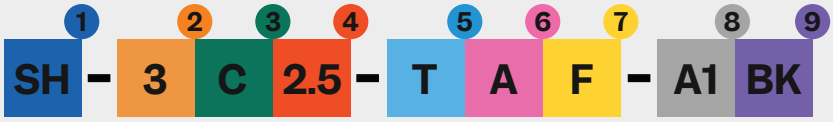
3 Core Type

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: SH-3C2.5-TAF-A1BK

▶ Series SH, 3 Cores, Power/Control, Size 2.5 mm², TACW, GSWB, SHF-2, Cores color are red black and earth, 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**

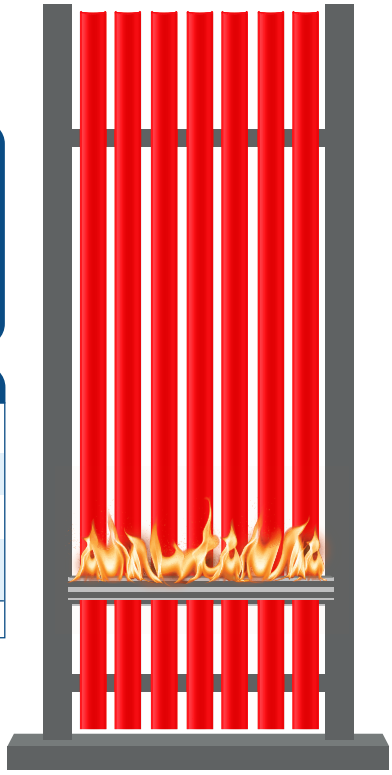
IEC Specifications

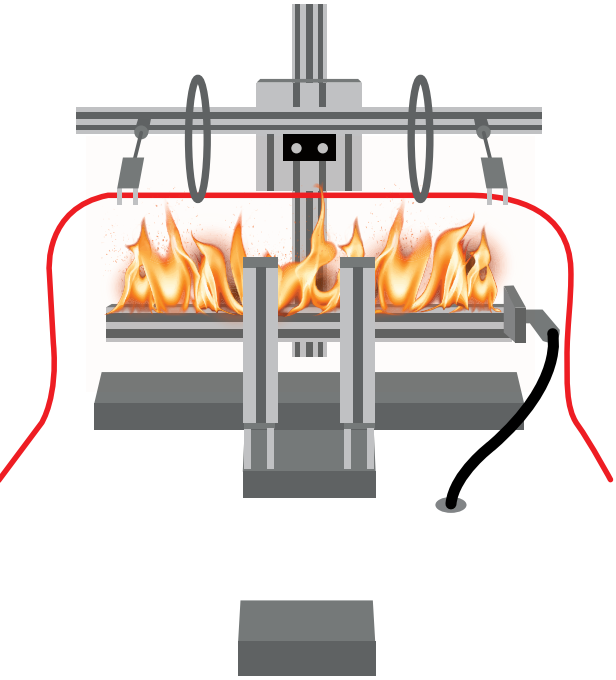
Standard	Title of test
IEC 60092-350	General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications
IEC 60092-352	Electrical installations in ships: Choice and installation of electrical cables
IEC 60092-353	Electrical installations in ships: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

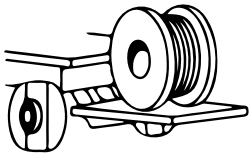
Industry Cable Designations

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

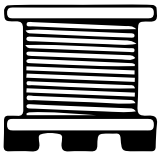
1st Letter Insulation		2nd Letter Bedding/inner jacket		3rd Letter Armouring/screen		4th Letter Outer jacket	
A	Fibre, tight cladded	A	Aluminium (optional with corrosion protection)	A	Strength member yarn	A	Yarn + bitumen
B	Fire resistant tape + insulation (Halogen-free	B	Corrugated aluminium (o.w.c.p.)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

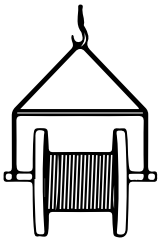
Do's



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

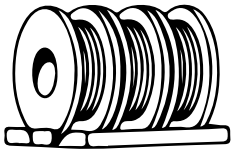


Pallets or spacers should be used to support drums for easier forklift handling.



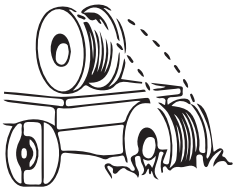
In order to lift or hoist drums, spreader beam should be used.

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



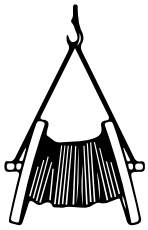
Drums must be fixed and secured.

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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