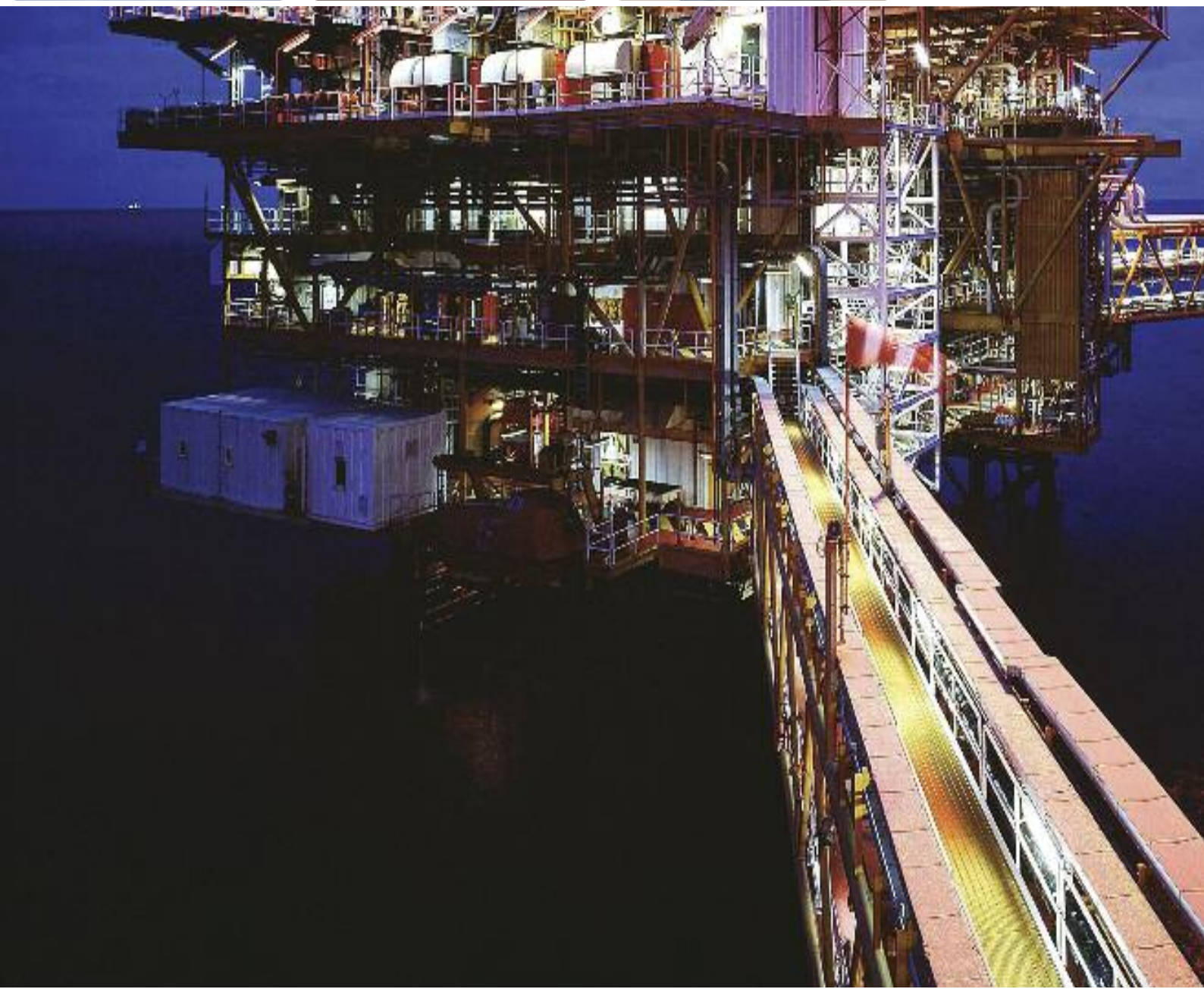


Tricab Flexible IEC LSZH Shipboard/Offshore Cables

LOW SMOKE ZERO HALOGEN

issue 1.0





Approvals and Certifications



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Low Smoke Zero Halogen (LSZH) - what does it mean?	6
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	PRODUCT SERIES	Flame Retardant IEC/0322-1 AS/NZS1660.5.6	Flame Retardant IEC/0322-3A AS/NZS1660.5.1	Halogen Free IEC/0754-1&2 AS/NZS1660.5.3	Smoke Emission IEC/1034-1&2 AS/NZS1660.5.2	Fire Resistant IEC/0931 AS/NZS1660.5.5	PAGE NUMBER
SHIPBOARD CABLES							
POWER AND CONTROL 110°C							
Unarmoured	BV	✓	✓	✓	✓	✗	12
Unarmoured	MK	✓	✓	✓	✓	✗	14
Braided/Armoured	DV	✓	✓	✓	✓	✗	16
INSTRUMENTATION 110°C							
Collective screened							
Unarmoured	RC	✓	✓	✓	✓	✗	18
Braided/Armoured	RS	✓	✓	✓	✓	✗	20
Individual and collective screened							
Unarmoured	EW	✓	✓	✓	✓	✗	22
Braided/Armoured	EG	✓	✓	✓	✓	✗	24
POWER AND CONTROL – Fire Resistant 110°C							
Unarmoured	RR	✓	✓	✓	✓	✓	26
Braided/Armoured	BH	✓	✓	✓	✓	✓	28
INSTRUMENTATION – Fire Resistant 110°C							
Collective screened							
Unarmoured	ES	✓	✓	✓	✓	✓	30
Braided/Armoured	FJ	✓	✓	✓	✓	✓	32
Individual and collective screened							
Unarmoured	FC	✓	✓	✓	✓	✓	34
Braided/Armoured	FL	✓	✓	✓	✓	✓	36
SHOREPOWER 110°C	EZ	✓	✗	✗	✗	✗	38
SWITCHBOARD/PANEL WIRE 110°C	UP	✓	✓	✓	✓	✗	40

OFFSHORE OIL AND GAS CABLES

POWER AND CONTROL 110°C

	PRODUCT SERIES	Flame Retardant IEC60332-1 AS/NZS1660.5.6	Flame Retardant IEC60332-3A AS/NZS1660.5.1	Halogen Free IEC60754-1&2 AS/NZS1660.5.3	Smoke Emission IEC61034-1&2 AS/NZS1660.5.2	Fire Resistant IEC60331 AS/NZS1660.5.5	PAGE NUMBER
Braided/Armoured	PJ	✓	✓	✓	✓	✗	42

INSTRUMENTATION 110°C

Collective screened

Braided/Armoured	RB	✓	✓	✓	✓	✗	44
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Individual and collective screened

Braided/Armoured	FZ	✓	✓	✓	✓	✗	46
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POWER AND CONTROL - Fire Resistant 110°C

Braided/Armoured	HT	✓	✓	✓	✓	✓	48
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INSTRUMENTATION - Fire Resistant 110°C

Collective screened

Braided/Armoured	FK	✓	✓	✓	✓	✓	50
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Individual and collective screened

Braided/Armoured	FE	✓	✓	✓	✓	✓	52
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SWITCHBOARD/PANEL WIRE 110°C

	UP	✓	✓	✓	✓	✗	54
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TECHNICAL INFORMATION

55

INTRODUCTION

Welcome to Issue 1.0 of our IEC Shipboard/Offshore Cables catalog.

Tricab has been pioneering and re-defining cable technologies for over 30 years.

The cables within this catalogue represent a milestone for the marine industry as they combine the highest technical performance, outstanding flexibility, reduced weight and user-friendliness.

All cables now include a high strength ripcord under all jackets, and under the insulation 10mm² and larger conductors, for ease of stripping extended lengths.

All Tricab Marine Cables conform to major international standards including IEC and IEEE and carry approvals from ABS, LR, DNV, BV, GL, NATO, USCG, TC NAVSEA.

Our cables are used globally across a broad range of platforms, including Navy and Defense vessels, Fast Ferries, Commercial and Work Boats, Tankers, Passenger Liners, and Megayachts.

We operate our own Sales and Distribution networks across Australia, New Zealand, Asia, the Middle East, Europe, the USA and Canada. This enables us to work directly with our customers in partnership agreements and deliver the highest possible service levels. Our Manufacturing facility in Worcester, MA, USA also includes Sales, Engineering, and Warehousing.

We trust that you will find this catalog of value and we look forward to being of service to you in the near future.



108ft Orca Class inshore patrol vessel by Victoria Shipyard, Victoria BC

LOW SMOKE ZERO HALOGEN (LSZH)

What does it mean?

LSZH

LSZH simply translates to Low Smoke Zero Halogen and refers to the behaviour of chemical compounds when combusted - specifically the quantity of smoke generated and the toxicity of the emissions.

Halogens - What are they?

Halogens are a group of five elements comprising; Fluorine, Chlorine, Bromine, Iodine and Astatine.



Fluorine



Chlorine



Bromine



Iodine

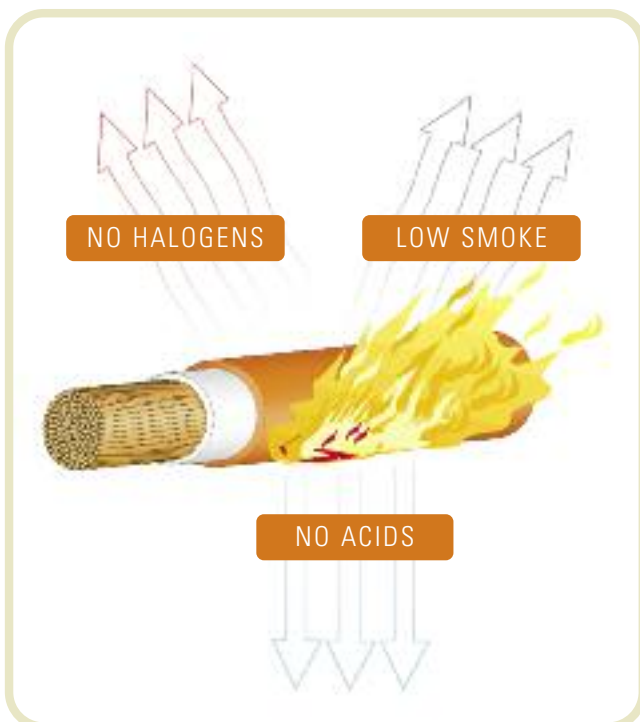


Astatine

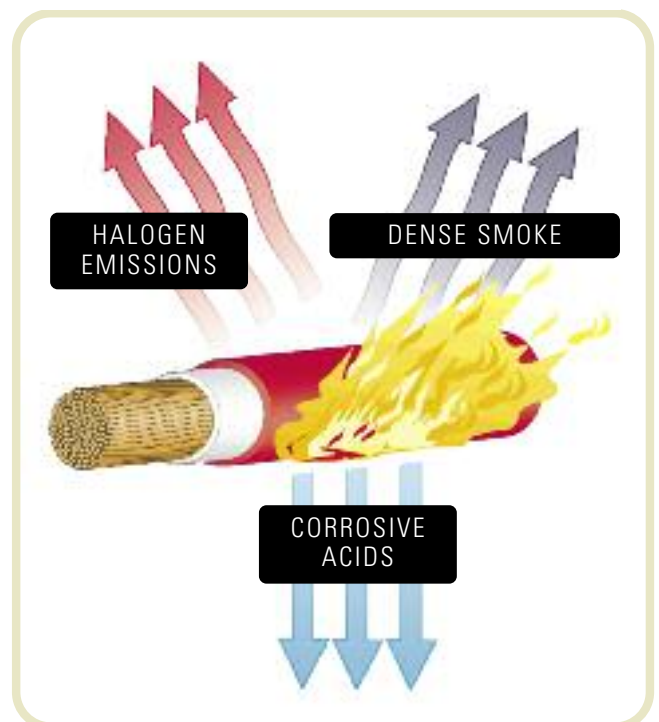
Halogens - and the effect of combustion

In their basic form, Halogens are very toxic, strong oxidizers and very chemically reactive. In the event of combustion, LSZH and non LSZH cables behave in very different ways, as indicated below.

Tricab LSZH Cables



Non LSZH Cables



LOW SMOKE ZERO HALOGEN (LSZH)

What does it mean?

What is the difference between LSZH and non LSZH cables?

LSZH cables have a zero Halogen content, emit no toxic fumes, generate very little smoke and produce no corrosive or caustic acids. LSZH cables are therefore ideally suited for all marine applications where personnel safety and protection of valuable equipment are of paramount importance.

Non LSZH cables, or Halogenated Cables, are typically manufactured from thermoplastic compounds, such as PVC. On combustion, these compounds generate highly toxic fumes that cause severe irritation to the eyes, nose, mouth, throat and lungs. Increased concentrations are considered fatal to humans.

They also generate large volumes of dense black smoke that blocks visibility and severely disrupts evacuation procedures. The smoke and fumes can also lead to suffocation from smoke inhalation. A one metre length of burning cable that contains 0.85Kg of PVC will completely obscure a room of 1000m³ with black toxic smoke in less than five minutes.

When combusted, Halogens combine with moisture to form Hydrochloric Acid. This extremely corrosive acid is potentially deadly to humans and always causes extensive property damage. Acids of this nature aggressively attack electrical switchboards, motors, fixtures, furnishings, floor coverings, paint surfaces etc. In many cases the effects of acid corrosion after a fire are much more severe than the actual fire damage itself.



Tricab LSFLEX® - Insulation & Sheath Materials

- ✓ are halogen free
- ✓ emit low smoke
- ✓ do not form corrosive acids
- ✓ have an extremely low fuel element

Tricab LSFLEX® - Insulation & Sheath Materials comply to the following standards:

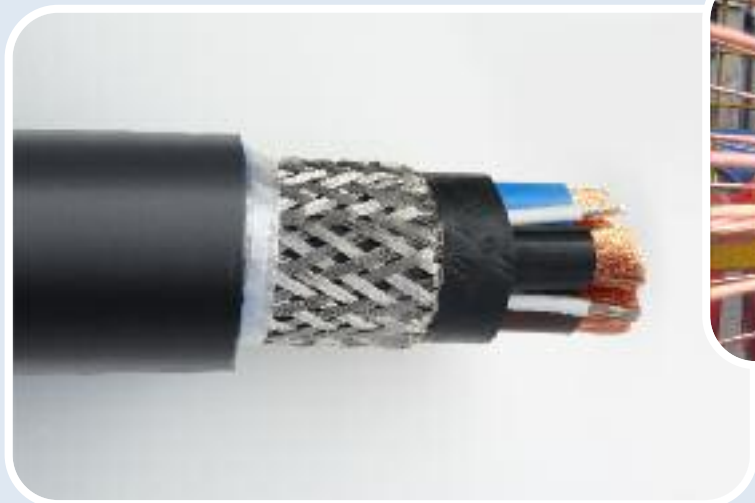
IEC 60332-1	AS/NZS1660.5.1
IEC 60332-3(A)	AS/NZS1660.5.2
IEC 60754-1&2	AS/NZS1660.5.3
IEC 61034-1&2	AS/NZS1660.5.6

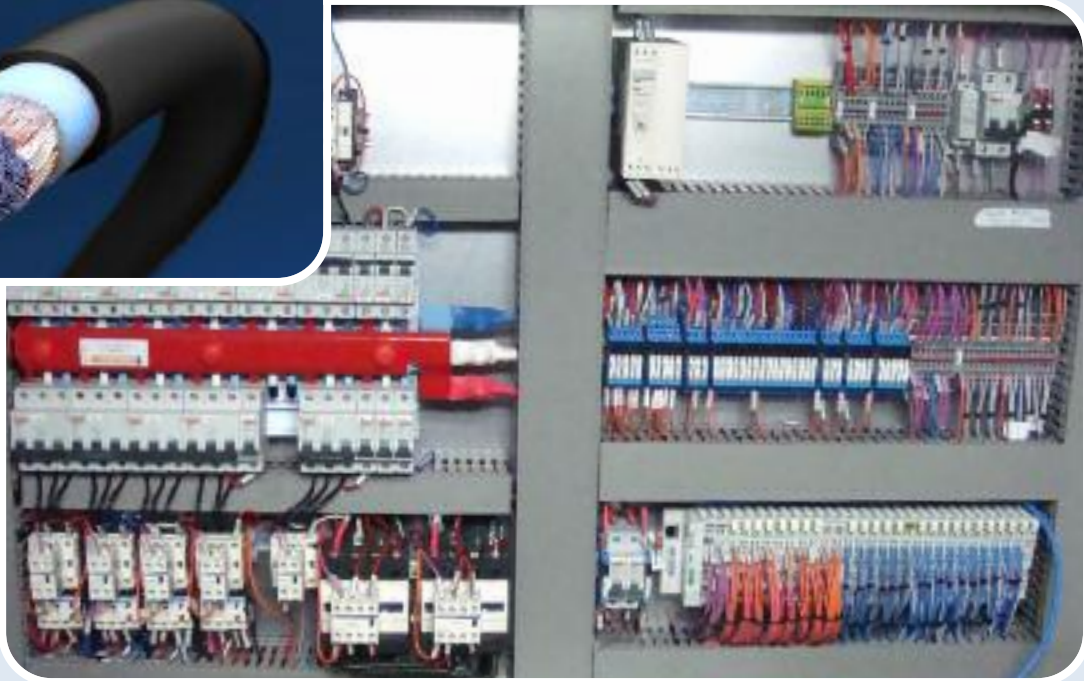
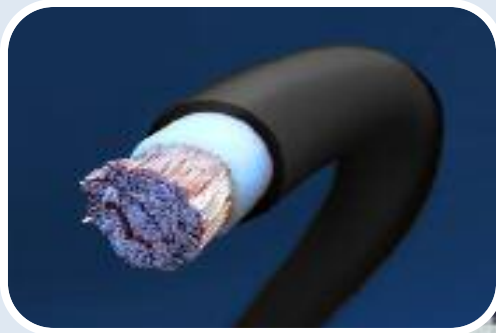
FEATURES AND BENEFITS

FEATURES

BENEFITS

- | | |
|---|--|
| <ul style="list-style-type: none">• Ripcord - Tricab includes a high strength ripcord under all bedding and overall jackets, and under the insulation on 10mm² and larger conductors. | Provides quick and efficient removal of any length of jacket or insulation without the risk of damage to underlying components. Eliminates the risk of injury from using razor knives or blades. |
| <ul style="list-style-type: none">• Fine Copper Stranding - Tricab uses very fine copper wire for all conductors, in accordance with ASTM B3-01, ASTM B33-00 and IEC 60228. | Significantly increased flexibility has numerous practical benefits, including reduced installation time and easier cable handling. These benefits translate directly into reduced installation time and cost. Fine stranded conductors also offer improved performance and reliability when subjected to vibration. |
| <ul style="list-style-type: none">• Round Concentric Cores - Tricab exclusively manufactures round cores throughout its entire size range, and does not use sectorial conductors. | Standard lugs, terminals and connectors can be used, saving installation time, inventory and cost - also providing better electrical contact with standard round lugs. |
| <ul style="list-style-type: none">• Lightweight - Tricab has developed specific product ranges that have reduced weight. | Especially relevant to high speed craft, where weight saving translates into improved performance and overall cost benefits. |
| <ul style="list-style-type: none">• Small OD - Tricab has developed specific product ranges that have reduced OD's. | Additional cables can be installed within a specified cable tray, ladder or conduit. A smaller bending radius benefits tight configurations, and smaller glands reduce cost. |
| <ul style="list-style-type: none">• Flexible Construction - Tricab uses a combination of fine conductors, special compounds and manufacturing processes to produce a very flexible cable. | Reduced installation time and cost, improved bending radius and safer cable handling (especially larger sizes). |
| <ul style="list-style-type: none">• Foot marking - All Tricab cables are foot-marked as standard, with a descending number (metre marking also available). | Assists the installation process and enables accurate stock management. |
| <ul style="list-style-type: none">• Product marking - Tricab offers personalized text messages printed onto the cable at regular intervals, even for short lengths. | Project Reference Codes, Company Name, Part Numbers, Quality Data, Marketing Information etc. can all be clearly marked. |





FEATURES

BENEFITS

- | | |
|--|---|
| <ul style="list-style-type: none"> • Make to order facility - Tricab can manufacture cables exactly to customer specifications. | <p>No need for the user to compromise or accept an alternative cable. Customers receive exactly what they need.</p> |
| <ul style="list-style-type: none"> • Global distribution - Tricab operates its own network of company offices and warehouses worldwide. We currently have operations in the Pacific, Asia, the Middle East, Europe and North America. | <p>We support customer projects wherever they may be, streamlining logistics, increasing supply reliability and saving time and money.</p> |
| <ul style="list-style-type: none"> • Research & development - Tricab maintains a very active R&D programme, working very closely with our sales team and customers. In conjunction with our in-house laboratory, we are continually improving cable performance. | <p>New cable technologies are introduced to our customers on an ongoing basis.</p> |
| <ul style="list-style-type: none"> • Quick response - Tricab has invested in manpower, machinery and materials to provide a short leadtime manufacturing capability. | <p>When cable is needed urgently, either due to an emergency or unexpected contingency, Tricab has the systems in place to fast-track the manufacturing process, reducing downtime and saving time and money.</p> |
| <ul style="list-style-type: none"> • Reliable long-term partner - Tricab has been supplying innovative cable solutions since 1978. We believe in long term partnerships and have a solid track record of successfully completed projects worldwide. | <p>We believe that satisfied customers are our strength and we do everything in our power to ensure that we both grow and prosper over the long term.</p> |
| <ul style="list-style-type: none"> • Approvals - Tricab maintains approvals from numerous certification bodies, including LR, DNV, ABS, BV, GL, UL, CSA. If required, we also obtain specific case approval. | <p>Reliable certification simplifies the task for procurement and engineering, saving time and money. It also allows cables left over from one project to be used for future projects.</p> |
| <ul style="list-style-type: none"> • Quality accreditation - Tricab operates an accredited Quality system in accordance with ISO 9001:2000, both within our manufacturing plant and our global offices and warehouses. | <p>We continually improve our quality performance, which in turn provides improved products and services to our customers.</p> |



SHIPBOARD CABLES

POWER AND CONTROL 110°C

Unarmoured	BV	12
Unarmoured	MK	14
Braided/Armoured	DV	16

INSTRUMENTATION 110°C

Collective screened

Unarmoured	RC	18
Braided/Armoured	RS	20

Individual and collective screened

Unarmoured	EW	22
Braided/Armoured	EG	24

POWER AND CONTROL - Fire Resistant 110°C

Unarmoured	RR	26
Braided/Armoured	BH	28

INSTRUMENTATION - Fire Resistant 110°C

Collective screened

Unarmoured	ES	30
Braided/Armoured	FJ	32

Individual and collective screened

Unarmoured	FC	34
Braided/Armoured	FL	36

SHOREPOWER 110°C

	EZ	38
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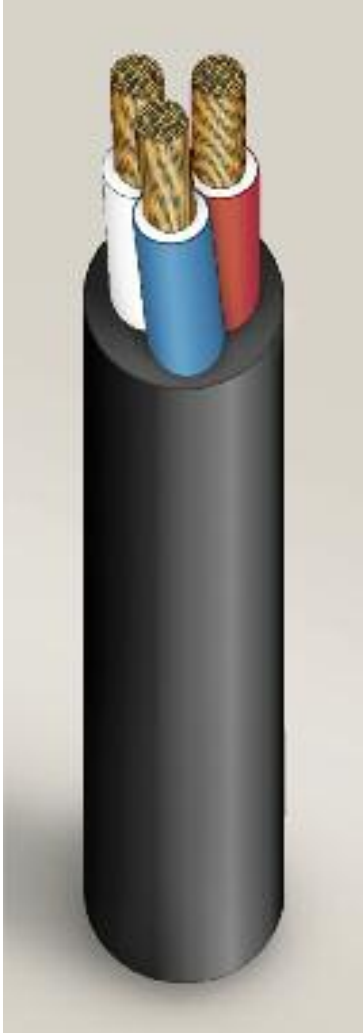
SWITCHBOARD/PANEL WIRE 110°C

	UP	40
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FLEXIBLE SHIPBOARD POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT



APPLICATION

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

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, BV, GL, USCG, TC

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c 6	3.10	4.7	6.8	27	82	52
1c 10	4.10	5.7	7.8	31	125	72
1c 16	5.10	6.8	9.1	36	184	96
1c 25	6.40	8.5	10.8	43	279	127
1c 35	7.80	9.9	12.4	50	380	157
1c 50	9.20	11.5	14.0	56	528	196
1c 70	10.80	13.3	16.0	64	714	242
1c 95	12.80	15.3	18.3	73	960	293
1c 120	14.50	17.3	20.4	82	1190	339
1c 150	16.30	19.5	22.9	91	1484	389
1c 185	18.00	21.7	25.2	101	1829	444
1c 240	20.30	24.2	28.0	112	2340	522
1c 300	23.00	27.2	31.1	125	2887	601
1c 400	26.00	30.7	34.8	139	3786	670
1c 500	29.20	34.4	38.7	155	4770	720
1c 630	32.80	38.4	43.2	173	5990	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



BV

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	8.1	32	75	20
2c 2.5	2.10	9.5	38	108	26
2c 4	2.50	10.4	41	144	34
2c 6	3.10	11.8	47	197	44
2c 10	4.10	13.9	56	304	61
2c 16	5.20	16.4	66	441	82
2c 25	6.40	20.0	80	676	108
2c 35	7.80	22.9	92	916	133
3c 1.5	1.50	8.4	34	91	16
3c 2.5	2.10	10.1	40	135	21
3c 4	2.50	11.0	44	184	28
3c 6	3.10	12.5	50	256	36
3c 10	4.10	14.9	60	407	50
3c 16	5.20	17.6	70	592	67
3c 25	6.40	21.2	85	906	89
3c 35	7.80	24.4	98	1233	110
3c 50	9.20	27.7	111	1720	137
3c 70	10.80	32.0	128	2332	169
3c 95	12.80	36.7	147	3142	205
3c 120	14.50	41.0	164	3897	237
3c 150	16.30	46.2	185	4881	272
3c 185	18.00	51.2	205	6022	311
3c 240	20.30	57.0	228	7701	365
4c 1.5	1.50	9.5	38	116	16
4c 2.5	2.10	11.0	44	167	21
4c 4	2.50	12.2	49	234	28
4c 6	3.10	13.7	55	322	36
4c 10	4.10	16.4	65	516	50
4c 16	5.20	19.3	77	754	67
4c 25	6.40	23.6	94	1165	89
4c 35	7.80	27.1	108	1587	110
4c 50	9.20	31.0	124	2229	137
4c 70	10.80	35.6	142	3012	169
4c 95	12.80	40.8	163	4061	205
4c 120	14.50	45.8	183	5049	237
4c 150	16.30	51.5	206	6319	272
4c 185	18.00	57.0	228	7797	311
5c 1.5	1.50	10.4	42	148	16
5c 2.5	2.10	12.2	49	215	21
5c 4	2.50	13.4	54	295	28
5c 6	3.10	15.3	61	409	36
5c 10	4.10	18.3	73	651	50
5c 16	5.20	21.6	86	948	67
5c 25	6.40	26.3	105	1460	89
5c 35	7.80	30.3	121	1985	110
5c 50	9.20	34.7	139	2784	137
5c 70	10.80	40.0	160	3769	169
5c 95	12.80	45.8	183	5072	205
5c 120	14.50	51.4	206	6300	237
5c 150	16.30	57.8	231	7876	272
5c 185	18.00	64.1	256	9728	311
5c 240	20.30	71.3	285	12438	365
7c 1.5	1.50	11.5	46	175	12
10c 1.5	1.50	14.5	58	248	11
12c 1.5	1.50	15.1	61	289	10
14c 1.5	1.50	15.9	64	330	10
16c 1.5	1.50	17.0	68	378	9
19c 1.5	1.50	17.9	72	439	9
24c 1.5	1.50	21.0	84	555	9
27c 1.5	1.50	21.6	86	615	9
33c 1.5	1.50	23.4	94	746	9
37c 1.5	1.50	24.3	97	827	9
7c 2.5	2.10	13.3	53	254	21
10c 2.5	2.10	17.2	69	366	20
12c 2.5	2.10	17.9	72	428	18
14c 2.5	2.10	18.8	75	492	18
16c 2.5	2.10	20.1	80	561	16
19c 2.5	2.10	21.2	85	655	15
24c 2.5	2.10	24.8	99	827	15
27c 2.5	2.10	25.7	103	927	15
33c 2.5	2.10	27.7	111	1116	15
37c 2.5	2.10	29.0	116	1248	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time



APPLICATION

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

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

DEF(AUST) 5000

APPROVALS

LR, DNV, ABS, GL, USCG, RAN

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c 6	3.10	4.7	6.8	27	82	52
1c 10	4.10	5.7	7.8	31	125	72
1c 16	5.10	6.8	9.1	36	184	96
1c 25	6.40	8.5	10.8	43	279	127
1c 35	7.80	9.9	12.4	50	380	157
1c 50	9.20	11.5	14.0	56	528	196
1c 70	10.80	13.3	16.0	64	714	242
1c 95	12.80	15.3	18.3	73	960	293
1c 120	14.50	17.3	20.4	82	1190	339
1c 150	16.30	19.5	22.9	91	1484	389
1c 185	18.00	21.7	25.2	101	1829	444
1c 240	20.30	24.2	28.0	112	2340	522
1c 300	23.00	27.2	31.1	125	2887	601
1c 400	26.00	30.7	34.8	139	3786	670
1c 500	29.20	34.4	38.7	155	4770	720
1c 630	32.80	38.4	43.2	173	5990	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



MK

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	8.1	32	75	20
2c 2.5	2.10	9.5	38	108	26
2c 4	2.50	10.4	41	144	34
2c 6	3.10	11.8	47	197	44
2c 10	4.10	13.9	56	304	61
2c 16	5.20	16.4	66	441	82
2c 25	6.40	20.0	80	676	108
2c 35	7.80	22.9	92	916	133
3c 1.5	1.50	8.4	34	91	16
3c 2.5	2.10	10.1	40	135	21
3c 4	2.50	11.0	44	184	28
3c 6	3.10	12.5	50	256	36
3c 10	4.10	14.9	60	407	50
3c 16	5.20	17.6	70	592	67
3c 25	6.40	21.2	85	906	89
3c 35	7.80	24.4	98	1233	110
3c 50	9.20	27.7	111	1720	137
3c 70	10.80	32.0	128	2332	169
3c 95	12.80	36.7	147	3142	205
3c 120	14.50	41.0	164	3897	237
3c 150	16.30	46.2	185	4881	272
3c 185	18.00	51.2	205	6022	311
3c 240	20.30	57.0	228	7701	365
4c 1.5	1.50	9.5	38	116	16
4c 2.5	2.10	11.0	44	167	21
4c 4	2.50	12.2	49	234	28
4c 6	3.10	13.7	55	322	36
4c 10	4.10	16.4	65	516	50
4c 16	5.20	19.3	77	754	67
4c 25	6.40	23.6	94	1165	89
4c 35	7.80	27.1	108	1587	110
4c 50	9.20	31.0	124	2229	137
4c 70	10.80	35.6	142	3012	169
4c 95	12.80	40.8	163	4061	205
4c 120	14.50	45.8	183	5049	237
4c 150	16.30	51.5	206	6319	272
4c 185	18.00	57.0	228	7797	311
5c 1.5	1.50	10.4	42	148	16
5c 2.5	2.10	12.2	49	215	21
5c 4	2.50	13.4	54	295	28
5c 6	3.10	15.3	61	409	36
5c 10	4.10	18.3	73	651	50
5c 16	5.20	21.6	86	948	67
5c 25	6.40	26.3	105	1460	89
5c 35	7.80	30.3	121	1985	110
5c 50	9.20	34.7	139	2784	137
5c 70	10.80	40.0	160	3769	169
5c 95	12.80	45.8	183	5072	205
5c 120	14.50	51.4	206	6300	237
5c 150	16.30	57.8	231	7876	272
5c 185	18.00	64.1	256	9728	311
5c 240	20.30	71.3	285	12438	365
7c 1.5	1.50	11.5	46	175	12
10c 1.5	1.50	14.5	58	248	11
12c 1.5	1.50	15.1	61	289	10
14c 1.5	1.50	15.9	64	330	10
16c 1.5	1.50	17.0	68	378	9
19c 1.5	1.50	17.9	72	439	9
24c 1.5	1.50	21.0	84	555	9
27c 1.5	1.50	21.6	86	615	9
33c 1.5	1.50	23.4	94	746	9
37c 1.5	1.50	24.3	97	827	9
7c 2.5	2.10	13.3	53	254	21
10c 2.5	2.10	17.2	69	366	20
12c 2.5	2.10	17.9	72	428	18
14c 2.5	2.10	18.8	75	492	18
16c 2.5	2.10	20.1	80	561	16
19c 2.5	2.10	21.2	85	655	15
24c 2.5	2.10	24.8	99	827	15
27c 2.5	2.10	25.7	103	927	15
33c 2.5	2.10	27.7	111	1116	15
37c 2.5	2.10	29.0	116	1248	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

DV

FLEXIBLE SHIPBOARD BRAIDED/ARMoured POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT



APPLICATION

Flexible Power and Control cables suitable for all shipboard and marine applications where mechanical or EMC protection is required.

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Overall Tape: Polyethylene

Braid/Armour Options:

Tinned Copper Wire Braid (90%)
Galvanized Steel Wire Braid (90%)
(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60331	
AS/NZS 1660.5.6	IEC 60332-1	
	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	
	DEF(AUST) 5000	

APPROVALS

LR, DNV, ABS, BV, GL, USCG, TC, RAN

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER TAPE (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c 6	3.10	4.7	5.5	6.7	9.0	54	143	52
1c 10	4.10	5.7	6.5	7.7	10.0	60	198	72
1c 16	5.20	6.9	7.7	8.9	11.2	67	264	96
1c 25	6.40	8.5	9.3	10.6	13.1	78	376	127
1c 35	7.80	9.9	10.8	12.0	14.7	88	491	157
1c 50	9.20	11.5	12.3	13.5	16.2	97	653	196
1c 70	10.80	13.3	14.1	15.3	18.3	110	857	242
1c 95	12.80	15.3	16.2	17.4	20.5	123	1122	293
1c 120	14.50	17.3	18.1	19.3	22.7	136	1370	339
1c 150	16.30	19.5	20.4	21.6	24.9	149	1679	389
1c 185	18.00	21.7	22.5	23.7	27.3	164	2043	444
1c 240	20.30	24.2	25.1	26.3	30.0	180	2578	522
1c 300	23.00	27.2	28.0	29.2	33.2	199	3151	601
1c 400	26.00	30.7	31.5	32.7	37.1	222	4093	670
1c 500	29.20	34.4	35.2	36.4	41.0	246	5111	720
1c 630	32.80	38.4	39.3	40.5	45.5	273	6369	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD BRAIDED/ARMoured POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



DV

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	6.8	8.0	10.3	62	155	20
2c 2.5	2.10	8.0	9.3	11.8	71	200	26
2c 4	2.50	8.9	10.1	12.6	76	245	34
2c 6	3.10	10.2	11.4	13.9	83	308	44
2c 10	4.10	12.2	13.4	16.1	97	438	61
2c 16	5.20	14.5	15.7	18.6	112	596	82
2c 25	6.40	17.7	18.9	22.0	132	856	108
2c 35	7.80	20.4	21.6	24.9	150	1119	133
3c 1.5	1.50	7.3	8.5	10.8	65	173	16
3c 2.5	2.10	8.6	9.8	12.3	74	228	21
3c 4	2.50	9.5	10.7	13.2	79	286	28
3c 6	3.10	10.9	12.1	14.8	89	370	36
3c 10	4.10	13.1	14.3	17.2	103	540	50
3c 16	5.20	15.5	16.8	19.9	119	747	67
3c 25	6.40	18.9	20.2	23.5	141	1089	89
3c 35	7.80	21.9	23.1	26.6	160	1439	110
3c 50	9.20	25.0	26.2	30.0	180	1949	137
3c 70	10.80	28.9	30.1	34.3	206	2589	169
3c 95	12.80	33.2	34.4	39.0	234	3427	205
3c 120	14.50	37.3	38.5	43.3	260	4207	237
3c 150	16.30	42.0	43.3	48.5	291	5216	272
3c 185	18.00	46.6	47.8	53.4	320	6380	311
3c 240	20.30	52.0	53.2	59.2	355	8082	365
4c 1.5	1.50	8.0	9.2	11.7	70	203	16
4c 2.5	2.10	9.5	10.7	13.2	79	267	21
4c 4	2.50	10.5	11.7	14.4	87	344	28
4c 6	3.10	12.0	13.2	16.0	96	446	36
4c 10	4.10	14.5	15.7	18.6	112	661	50
4c 16	5.20	17.2	18.5	21.6	130	923	67
4c 25	6.40	21.1	22.3	25.8	155	1367	89
4c 35	7.80	24.4	25.6	29.3	176	1816	110
4c 50	9.20	27.9	29.1	33.1	198	2477	137
4c 70	10.80	32.2	33.5	37.8	227	3302	169
4c 95	12.80	37.0	38.3	43.0	258	4385	205
4c 120	14.50	41.6	42.8	48.0	288	5405	237
4c 150	16.30	46.9	48.2	53.8	323	6709	272
4c 185	18.00	52.0	53.2	59.2	355	8217	311
5c 1.5	1.50	8.9	10.1	12.6	76	236	16
5c 2.5	2.10	10.6	11.8	14.5	87	317	21
5c 4	2.50	11.7	12.9	15.6	94	407	28
5c 6	3.10	13.4	14.6	17.6	105	537	36
5c 10	4.10	16.2	17.4	20.5	123	803	50
5c 16	5.20	19.3	20.5	23.9	143	1127	67
5c 25	6.40	23.6	24.9	28.6	172	1676	89
5c 35	7.80	27.4	28.6	32.5	195	2233	110
5c 50	9.20	31.3	32.6	36.9	221	3067	137
7c 1.5	1.5	9.8	11.0	13.5	81	260	12
10c 1.5	1.5	12.7	13.9	16.6	100	355	11
12c 1.5	1.5	13.3	14.5	17.4	104	406	10
14c 1.5	1.5	14.0	15.2	18.1	109	454	10
16c 1.5	1.5	14.9	16.1	19.0	114	503	9
19c 1.5	1.5	15.8	17.0	20.1	121	577	9
24c 1.5	1.5	18.6	19.9	23.2	139	716	9
27c 1.5	1.5	19.2	20.5	23.8	143	781	9
33c 1.5	1.5	20.9	22.1	25.7	154	925	9
37c 1.5	1.5	21.8	23.0	26.6	159	1014	9
7c 2.5	2.1	11.6	12.9	15.6	93	358	21
10c 2.5	2.1	15.1	16.3	19.2	115	493	20
12c 2.5	2.1	15.8	17.0	20.1	121	566	18
14c 2.5	2.1	16.7	17.9	21.0	126	637	18
16c 2.5	2.1	17.8	19.0	22.1	133	709	16
19c 2.5	2.1	18.9	20.1	23.4	140	818	15
24c 2.5	2.1	22.3	23.5	27.0	162	1018	15
27c 2.5	2.1	23.0	24.2	28.0	168	1124	15
33c 2.5	2.1	25.0	26.2	30.0	180	1328	15
37c 2.5	2.1	26.1	27.3	31.2	187	1470	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT



APPLICATION

Flexible Instrumentation cables suitable for all shipboard and marine applications.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Drain Wire: Tinned annealed copper

Screen: Aluminium/Laminate Tape

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-375	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, GL, USCG, TC

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p 0.5	0.95	7.4	30	53
2p 0.5 (quad formation)	0.95	8.1	33	68
4p 0.5	0.95	12.2	49	113
8p 0.5	0.95	15.2	61	190
10p 0.5	0.95	16.4	66	225
12p 0.5	0.95	17.9	72	267
16p 0.5	0.95	19.8	79	341
20p 0.5	0.95	20.7	83	405
24p 0.5	0.95	21.7	87	471
27p 0.5	0.95	22.8	91	527
36p 0.5	0.95	26.1	104	688

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FLEXIBLE SHIPBOARD INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
NO HALOGEN
FLAME
RETARDANT

RC

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p .75	1.20	7.9	32	63
2p .75 (quad formation)	1.20	8.9	36	86
4p .75	1.20	13.0	52	140
6p .75	1.20	14.8	59	193
8p .75	1.20	16.7	67	244
10p .75	1.20	18.2	73	298
12p .75	1.20	19.9	79	353
14p .75	1.20	20.8	83	400
16p .75	1.20	21.7	87	447
20p .75	1.20	22.9	92	543
24p .75	1.20	24.1	96	634
27p .75	1.20	25.3	101	710
36p .75	1.20	29.0	116	930
1p 1.0	1.30	9.0	36	83
2p 1.0 (quad formation)	1.30	10.0	40	111
4p 1.0	1.30	15.4	61	188
8p 1.0	1.30	19.4	78	328
10p 1.0	1.30	21.2	85	400
12p 1.0	1.30	23.2	93	474
16p 1.0	1.30	25.6	102	609
20p 1.0	1.30	26.8	107	732
24p 1.0	1.30	28.4	113	865
27p 1.0	1.30	29.5	118	959
36p 1.0	1.30	34.1	136	1266
1p 1.5	1.50	9.4	38	97
2p 1.5 (quad formation)	1.50	10.5	42	134
4p 1.5	1.50	16.2	65	231
8p 1.5	1.50	20.8	83	419
10p 1.5	1.50	22.7	91	512
12p 1.5	1.50	24.6	98	600
16p 1.5	1.50	27.1	109	777
20p 1.5	1.50	28.6	115	948
24p 1.5	1.50	30.1	121	1113
27p 1.5	1.50	31.5	126	1247
36p 1.5	1.50	36.4	146	1648
1p 2.5	2.10	10.6	43	131
2p 2.5 (quad formation)	2.10	12.2	49	192
4p 2.5	2.10	19.0	76	334
8p 2.5	2.10	24.5	98	613
10p 2.5	2.10	26.7	107	751
12p 2.5	2.10	29.2	117	893
16p 2.5	2.10	32.2	129	1159
20p 2.5	2.10	34.0	136	1418
24p 2.5	2.10	35.8	143	1670
27p 2.5	2.10	37.5	150	1870
36p 2.5	2.10	43.3	173	2474

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

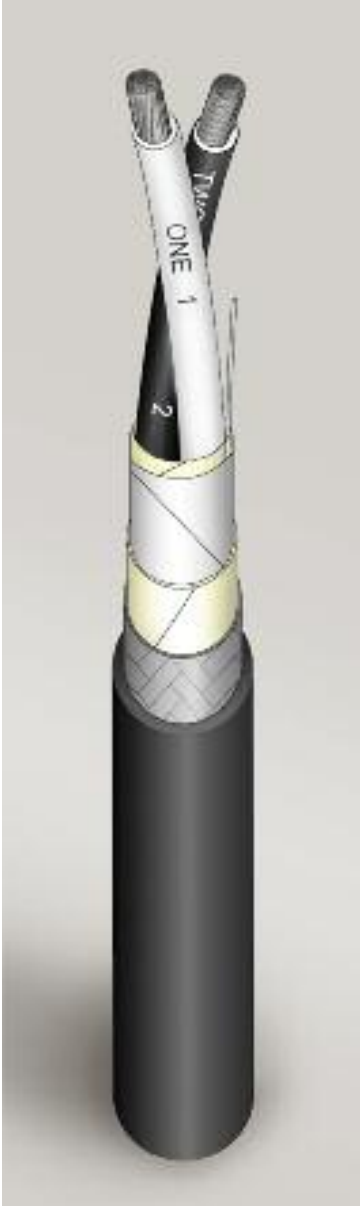
NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1t .75	1.20	8.3	33	72
3t .75	1.20	12.4	50	148
4t .75	1.20	13.5	54	184
7t .75	1.20	16.3	65	295
1t 1.5	1.50	9.9	39	114
3t 1.5	1.50	15.2	61	246
4t 1.5	1.50	16.6	67	310
7t 1.5	1.50	20.4	81	512

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT



APPLICATION

Flexible Instrumentation cables suitable for all shipboard and marine applications, where mechanical or EMC protection is required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Aluminium/Laminate Tape

Overall Tape: Polyethylene

Braid/Armour Options:

Tinned Copper Wire Braid (90%)
Galvanized Steel Wire Braid (90%)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water.

Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-375
AS/NZS 1660.5.3	IEC 60332-1
AS/NZS 1660.5.6	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

LR, DNV, ABS, GL, USCG,

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER TAPE (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	5.3	6.5	8.8	53	108
2p 0.5 (quad form)	0.95	6.0	7.3	9.6	57	126
4p 0.5	0.95	9.7	10.9	13.4	81	194
8p 0.5	0.95	12.5	13.8	16.5	99	293
10p 0.5	0.95	13.7	14.9	17.8	107	342
12p 0.5	0.95	15.0	16.2	19.1	115	389
16p 0.5	0.95	16.6	17.9	21.0	126	476
20p 0.5	0.95	17.5	18.8	21.9	131	547
24p 0.5	0.95	18.8	20.0	23.4	140	630
27p 0.5	0.95	19.8	21.1	24.4	146	689
36p 0.5	0.95	22.6	23.8	27.3	164	868

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT

RS

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER TAPE (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	5.8	7.0	9.3	56	122
2p .75 (quad form)	1.20	6.7	7.9	10.2	61	147
4p .75	1.20	10.5	11.7	14.4	86	231
8p .75	1.20	14.0	15.2	18.1	109	364
10p .75	1.20	15.3	16.5	19.4	116	422
12p .75	1.20	16.8	18.0	21.1	127	489
14p .75	1.20	17.6	18.9	22.0	132	543
16p .75	1.20	18.6	19.8	23.2	139	604
20p .75	1.20	19.6	20.8	24.2	145	701
24p .75	1.20	21.0	22.2	25.8	155	811
27p .75	1.20	22.2	23.4	27.0	162	890
36p .75	1.20	25.2	26.5	30.2	181	1130
1p 1.0	1.30	6.7	7.9	10.2	61	147
2p 1.0 (quad form)	1.30	7.7	8.9	11.4	69	184
4p 1.0	1.30	12.6	13.9	16.6	99	292
8p 1.0	1.30	16.5	17.8	20.9	125	468
10p 1.0	1.30	18.1	19.3	22.6	136	552
12p 1.0	1.30	19.8	21.1	24.4	146	633
16p 1.0	1.30	22.0	23.3	26.8	161	786
20p 1.0	1.30	23.2	24.5	28.2	169	926
24p 1.0	1.30	24.9	26.1	29.9	179	1065
27p 1.0	1.30	26.3	27.5	31.5	189	1181
36p 1.0	1.30	29.9	31.2	35.3	212	1503
1p 1.5	1.50	7.1	8.3	10.6	64	164
2p 1.5 (quad form)	1.50	8.2	9.4	11.9	72	211
4p 1.5	1.50	13.5	14.7	17.6	106	347
8p 1.5	1.50	17.7	18.9	22.0	132	562
10p 1.5	1.50	19.3	20.6	23.9	143	668
12p 1.5	1.50	21.2	22.5	26.0	156	778
16p 1.5	1.50	23.6	24.8	28.6	171	974
20p 1.5	1.50	24.9	26.1	29.9	179	1147
24p 1.5	1.50	26.7	27.9	31.9	191	1336
27p 1.5	1.50	28.2	29.4	33.6	201	1484
36p 1.5	1.50	32.1	33.3	37.7	226	1902
1p 2.5	2.10	8.3	9.6	12.1	72	212
2p 2.5 (quad form)	2.10	9.7	10.9	13.4	80	277
4p 2.5	2.10	16.1	17.3	20.4	123	471
8p 2.5	2.10	21.2	22.4	25.9	156	790
10p 2.5	2.10	23.2	24.4	28.1	169	945
12p 2.5	2.10	25.4	26.7	30.4	182	1096
16p 2.5	2.10	28.3	29.5	33.7	202	1394
20p 2.5	2.10	29.8	31.1	35.2	211	1655
24p 2.5	2.10	32.0	33.2	37.6	226	1937
27p 2.5	2.10	33.8	35.0	39.6	238	2154
36p 2.5	2.10	38.5	39.7	44.7	268	2790

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t .75	1.20	6.2	7.4	9.7	58	129
3t .75	1.20	9.9	11.2	13.7	82	231
4t .75	1.20	11.0	12.3	15.0	90	279
7t .75	1.20	13.6	14.9	17.8	107	411
1t 1.5	1.50	7.6	8.8	11.1	66	176
3t 1.5	1.50	12.5	13.8	16.5	99	346
4t 1.5	1.50	13.9	15.1	18.1	108	426
7t 1.5	1.50	17.2	18.5	21.6	130	648

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FLEXIBLE SHIPBOARD INDIVIDUAL & COLLECTIVE SCREENED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all shipboard and marine applications.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Individual and Collective Aluminium/Laminate Tape

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-375	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, GL, USCG, TC

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p 0.5	0.95	7.4	30	52
2p 0.5	0.95	11.6	46	104
4p 0.5	0.95	13.5	54	148
8p 0.5	0.95	17.2	69	262
10p 0.5	0.95	18.5	74	313
12p 0.5	0.95	20.2	81	371
16p 0.5	0.95	22.1	89	471
20p 0.5	0.95	23.4	93	572
24p 0.5	0.95	24.8	99	670
27p 0.5	0.95	26.2	105	751
36p 0.5	0.95	29.5	118	980

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD INDIVIDUAL & COLLECTIVE SCREENED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
RETARDANT

EW

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p .75	1.20	7.9	32	62
2p .75	1.20	12.4	50	122
4p .75	1.20	14.8	59	182
8p .75	1.20	18.6	75	320
10p .75	1.20	20.3	81	390
12p .75	1.20	22.0	88	457
16p .75	1.20	24.3	97	590
20p .75	1.20	25.6	103	718
24p .75	1.20	27.2	109	842
27p .75	1.20	28.8	115	945
36p .75	1.20	32.4	130	1235
1p 1.0	1.30	9.0	36	82
2p 1.0	1.30	13.9	56	157
4p 1.0	1.30	16.6	67	237
8p 1.0	1.30	21.4	86	429
10p 1.0	1.30	23.3	93	524
12p 1.0	1.30	25.5	102	622
16p 1.0	1.30	28.2	113	803
20p 1.0	1.30	29.5	118	970
24p 1.0	1.30	31.5	126	1149
27p 1.0	1.30	33.1	132	1279
36p 1.0	1.30	37.5	150	1684
1p 1.5	1.50	9.4	38	95
2p 1.5	1.50	14.8	59	186
4p 1.5	1.50	17.4	70	285
8p 1.5	1.50	22.8	91	522
10p 1.5	1.50	24.6	98	632
12p 1.5	1.50	26.9	107	751
16p 1.5	1.50	29.7	119	975
20p 1.5	1.50	31.3	125	1192
24p 1.5	1.50	33.5	134	1414
27p 1.5	1.50	35.2	141	1575
36p 1.5	1.50	39.9	159	2077
1p 2.5	2.10	10.6	43	128
2p 2.5	2.10	17.1	68	256
4p 2.5	2.10	20.5	82	401
8p 2.5	2.10	26.5	106	739
10p 2.5	2.10	28.9	115	907
12p 2.5	2.10	31.5	126	1078
16p 2.5	2.10	34.8	139	1402
20p 2.5	2.10	36.7	147	1717
24p 2.5	2.10	39.2	157	2039
27p 2.5	2.10	41.2	165	2274
36p 2.5	2.10	46.7	187	3001

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1t 0.75	1.2	8.3	33	70
3t 0.75	1.2	13.6	54	177
4t 0.75	1.2	15.0	60	226
7t 0.75	1.2	18.1	72	363
1t 1.5	1.5	9.9	39	110
3t 1.5	1.5	16.4	65	286
4t 1.5	1.5	18.1	73	368
7t 1.5	1.5	21.9	88	601

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FLEXIBLE SHIPBOARD INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all shipboard and marine applications, where mechanical or EMC protection is required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Individual and Collective Aluminium/Laminate Tape

Overall Tape: Polyethylene

Braid/Armour Options:

Tinned Copper Wire Braid (90%)
Galvanized Steel Wire Braid (90%)

Ripcord: High strength ripcord under sheath.)

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to

oil, skydrol, petrol, acid, sea water.
Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-375
AS/NZS 1660.5.3	IEC 60332-1
AS/NZS 1660.5.6	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

LR, DNV, ABS, GL, USCG,

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	4.2	6.8	9.1	55	113
2p 0.5	0.95	8.1	10.6	13.1	79	212
4p 0.5	0.95	10.1	12.5	15.2	91	246
8p 0.5	0.95	13.7	15.8	18.7	112	381
10p 0.5	0.95	15.0	17.1	20.3	122	448
12p 0.5	0.95	16.5	18.6	21.8	131	512
16p 0.5	0.95	18.4	20.6	23.9	143	632
20p 0.5	0.95	19.4	21.6	24.9	149	734
24p 0.5	0.95	20.9	23.0	26.5	159	849
27p 0.5	0.95	22.1	24.2	27.7	166	932
36p 0.5	0.95	25.2	27.3	31.3	188	1193

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT

EG

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	4.7	7.3	9.6	58	127
2p .75	1.20	8.9	11.5	14.0	84	248
4p .75	1.20	11.1	13.6	16.3	98	285
8p .75	1.20	15.1	17.3	20.4	122	456
10p .75	1.20	16.6	18.7	21.9	131	533
12p .75	1.20	18.2	20.4	23.7	142	618
16p .75	1.20	20.4	22.5	26.0	156	768
20p .75	1.20	21.5	23.6	27.2	163	897
24p .75	1.20	23.1	25.2	29.0	174	1041
27p .75	1.20	24.4	26.5	30.3	182	1146
36p .75	1.20	27.8	30.0	34.1	205	1463
1p 1.0	1.30	5.6	8.2	10.5	63	153
2p 1.0	1.30	10.4	13.0	15.7	94	320
4p 1.0	1.30	13.0	15.5	18.4	110	360
8p 1.0	1.30	17.7	19.8	23.1	139	586
10p 1.0	1.30	19.4	21.5	24.9	149	689
12p 1.0	1.30	21.3	23.5	27.0	162	801
16p 1.0	1.30	23.8	25.9	29.7	178	1002
20p 1.0	1.30	25.1	27.2	31.2	187	1187
24p 1.0	1.30	27.0	29.1	33.0	198	1372
27p 1.0	1.30	28.5	30.7	34.8	209	1523
36p 1.0	1.30	32.5	34.7	39.2	235	1961
1p 1.5	1.50	6.0	8.6	10.9	66	170
2p 1.5	1.50	11.1	13.6	16.4	98	362
4p 1.5	1.50	13.9	16.3	19.2	115	411
8p 1.5	1.50	18.8	21.0	24.3	146	683
10p 1.5	1.50	20.7	22.8	26.4	158	815
12p 1.5	1.50	22.7	24.9	28.6	172	951
16p 1.5	1.50	25.4	27.5	31.5	189	1196
20p 1.5	1.50	26.8	28.9	32.8	197	1414
24p 1.5	1.50	28.7	30.9	35.0	210	1652
27p 1.5	1.50	30.4	32.5	36.9	221	1836
36p 1.5	1.50	34.7	36.8	41.4	248	2361
1p 2.5	2.10	7.2	9.9	12.4	74	218
2p 2.5	2.10	13.2	15.7	18.6	112	483
4p 2.5	2.10	16.4	18.9	22.0	132	546
8p 2.5	2.10	22.3	24.5	28.2	169	936
10p 2.5	2.10	24.5	26.6	30.4	182	1113
12p 2.5	2.10	26.9	29.1	33.0	198	1304
16p 2.5	2.10	30.1	32.2	36.6	219	1663
20p 2.5	2.10	31.7	33.9	38.2	229	1981
24p 2.5	2.10	34.1	36.2	40.8	245	2322
27p 2.5	2.10	36.0	38.2	42.9	258	2584
36p 2.5	2.10	41.1	43.2	48.4	291	3353

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t 0.75	1.20	5.0	7.7	10.0	60	133
3t 0.75	1.20	10.5	12.6	15.3	92	275
4t 0.75	1.20	11.7	13.8	16.6	99	329
7t 0.75	1.20	14.6	16.7	19.9	119	493
1t 1.5	1.50	6.4	9.1	11.6	70	181
3t 1.5	1.50	13.1	15.2	18.1	109	404
4t 1.5	1.50	14.6	16.7	19.9	119	498
7t 1.5	1.50	18.2	20.3	23.7	142	757

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

RR

FLEXIBLE SHIPBOARD FIRE RESISTANT POWER AND CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

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

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-353
AS/NZS 1660.5.3	IEC 60331-11
AS/NZS 1660.5.6	IEC 60331-21
	IEC 60332-1
	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

LR, DNV, ABS, GL, USCG, TC

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c 6	3.10	5.4	7.5	60	92	52
1c 10	4.10	6.4	8.7	70	141	72
1c 16	5.10	7.6	9.9	79	198	96
1c 25	6.40	9.1	11.6	93	294	127
1c 35	7.80	10.6	13.1	105	393	157
1c 50	9.20	12.2	14.9	119	548	196
1c 70	10.80	14.0	17.0	136	741	242
1c 95	12.80	16.2	19.1	153	988	293
1c 120	14.50	18.1	21.2	170	1224	339
1c 150	16.30	20.3	23.6	189	1519	389
1c 185	18.00	22.4	26.0	208	1867	444
1c 240	20.30	25.0	28.7	230	2383	522
1c 300	23.00	27.9	31.9	255	2934	601
1c 400	26.00	31.4	35.6	284	3839	670
1c 500	29.20	35.1	39.7	317	4839	720
1c 630	32.80	39.2	43.9	352	6055	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD FIRE RESISTANT POWER AND CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



RR

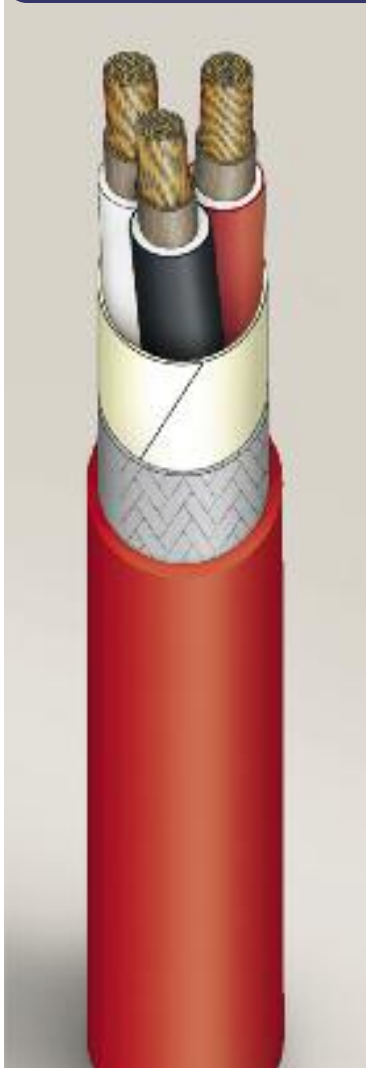
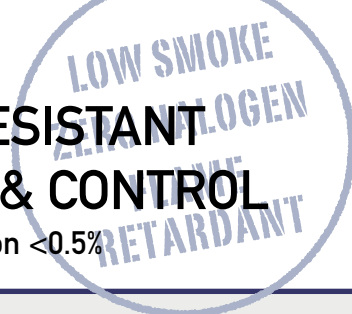
NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	9.7	77	98	20
2c 2.5	2.10	11.0	88	132	26
2c 4	2.50	12.0	96	175	34
2c 6	3.10	13.3	106	229	44
2c 10	4.10	15.6	125	346	61
2c 16	5.10	18.1	144	488	82
2c 25	6.40	21.2	170	716	108
2c 35	7.80	24.2	194	963	133
3c 1.5	1.50	9.9	79	116	16
3c 2.5	2.10	11.8	95	167	21
3c 4	2.50	12.8	102	221	28
3c 6	3.10	14.3	115	298	36
3c 10	4.10	16.6	133	451	50
3c 16	5.10	19.2	154	643	67
3c 25	6.40	22.8	182	960	89
3c 35	7.80	26.0	208	1295	110
3c 50	9.20	29.5	236	1793	137
3c 70	10.80	33.8	270	2432	169
3c 95	12.80	38.5	308	3257	205
3c 120	14.50	43.0	344	4044	237
3c 150	16.30	48.0	384	5030	272
3c 185	18.00	52.9	423	6187	311
3c 240	20.30	58.7	470	7884	365
4c 1.5	1.50	11.1	89	147	16
4c 2.5	2.10	12.9	103	205	21
4c 4	2.5	14.0	112	275	28
4c 6	3.10	15.7	125	372	36
4c 10	4.10	18.4	147	575	50
4c 16	5.10	21.3	170	822	67
4c 25	6.40	25.3	202	1229	89
4c 35	7.80	28.9	231	1661	110
4c 50	9.20	32.8	262	2308	137
4c 70	10.80	37.5	300	3133	169
4c 95	12.80	43.0	344	4213	205
4c 120	14.50	48.0	384	5229	237
4c 150	16.30	53.4	428	6503	272
4c 185	18.00	58.9	471	7999	311
5c 1.5	1.50	12.4	99	180	16
5c 2.5	2.10	14.4	115	251	21
5c 4	2.50	15.6	125	337	28
5c 6	3.10	17.5	140	457	36
5c 10	4.10	20.5	164	708	50
5c 16	5.10	23.8	190	1012	67
5c 25	6.40	28.2	226	1515	89
5c 35	7.80	32.3	258	2049	110
5c 50	9.20	36.8	295	2860	137
7c 1.5	1.50	13.5	108	218	12
10c 1.5	1.50	17.5	140	314	11
12c 1.5	1.50	18.2	145	366	10
14c 1.5	1.50	19.1	153	419	10
16c 1.5	1.50	20.4	163	478	9
19c 1.5	1.50	21.5	172	556	9
24c 1.5	1.50	25.4	203	709	9
27c 1.5	1.50	26.2	209	786	9
33c 1.5	1.50	28.4	227	951	9
37c 1.5	1.50	29.5	236	1054	9
7c 2.5	2.10	15.7	126	305	21
10c 2.5	2.10	20.3	162	440	20
12c 2.5	2.10	21.1	169	514	18
14c 2.5	2.10	22.2	178	589	18
16c 2.5	2.10	23.7	190	673	16
19c 2.5	2.10	25.3	202	792	15
24c 2.5	2.10	29.6	237	998	15
27c 2.5	2.10	30.5	244	1109	15
33c 2.5	2.10	33.0	264	1342	15
37c 2.5	2.10	34.6	276	1501	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

BH

FLEXIBLE SHIPBOARD FIRE RESISTANT BRAIDED/ARMoured POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Power and Control cables suitable for all shipboard and marine applications, where circuit integrity is required under fire conditions and mechanical or EMC protection is also required.

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Overall Tape: Polyethylene

Braid/Armour Options:

Tinned Copper Wire Braid (90%)
Galvanized Steel Wire Braid (90%)
(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-353
AS/NZS 1660.5.3	IEC 60331-11
AS/NZS 1660.5.6	IEC 60331-21
	IEC 60332-1
	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

LR, DNV, ABS, GL, USCG, TC

	NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
	1c 6	6.5	5.4	6.2	7.4	9.7	97	160	52
	1c 10	4.1	6.4	7.3	8.5	10.8	108	217	72
	1c 16	5.1	7.6	8.4	9.6	12.1	121	287	96
	1c 25	6.4	9.1	10.0	11.2	13.7	137	394	127
	1c 35	7.8	10.6	11.4	12.7	15.4	154	511	157
	1c 50	9.2	12.2	13.0	14.2	17.2	172	680	196
	1c 70	10.8	14.0	14.9	16.1	19.0	190	886	242
	1c 95	12.8	16.2	17.0	18.2	21.3	213	1158	293
	1c 120	14.5	18.1	18.9	20.2	23.5	235	1412	339
	1c 150	16.3	20.3	21.1	22.3	25.8	258	1728	389
	1c 185	18.0	22.4	23.2	24.5	28.2	282	2096	444
	1c 240	20.3	25.0	25.8	27.0	31.0	310	2636	522
	1c 300	23.0	27.9	28.8	30.0	34.1	341	3215	601
	1c 400	26.0	31.4	32.2	33.4	37.8	378	4152	670
	1c 500	29.2	35.1	35.9	37.1	41.9	419	5188	720
	1c 630	32.8	39.2	40.0	41.2	46.2	462	6441	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD FIRE RESISTANT BRAIDED/ARMoured POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



BH

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER TAPE (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	8.2	9.4	11.9	119	193	20
2c 2.5	2.10	9.5	10.7	13.2	132	239	26
2c 4	2.50	10.4	11.6	14.3	143	291	34
2c 6	3.10	11.6	12.8	15.6	156	357	44
2c 10	4.10	13.7	14.9	17.8	178	494	61
2c 16	5.10	16.0	17.2	20.3	203	658	82
2c 25	6.40	18.9	20.1	23.5	235	913	108
2c 35	7.80	21.7	22.9	26.5	265	1185	133
3c 1.5	1.50	8.7	10.0	12.5	125	215	16
3c 2.5	2.10	10.2	11.4	13.9	139	270	21
3c 4	2.50	11.1	12.3	15.0	150	337	28
3c 6	3.10	12.4	13.7	16.4	164	421	36
3c 10	4.10	14.7	15.9	18.8	188	598	50
3c 16	5.10	17.1	18.3	21.4	214	810	67
3c 25	6.40	20.3	21.5	24.8	248	1146	89
3c 35	7.80	23.3	24.5	28.3	283	1512	110
3c 50	9.20	26.6	27.8	31.7	317	2034	137
3c 70	10.80	30.4	31.7	35.8	358	2689	169
3c 95	12.80	35.0	36.2	40.8	408	3552	205
3c 120	14.50	39.1	40.3	45.3	453	4364	237
3c 150	16.30	43.6	44.8	50.2	502	5374	272
3c 185	18.00	48.1	49.3	54.9	549	6537	311
3c 240	20.30	53.5	54.7	60.7	607	8254	365
4c 1.5	1.50	9.6	10.9	13.4	134	249	16
4c 2.5	2.10	11.2	12.5	15.2	152	321	21
4c 4	2.50	12.3	13.5	16.2	162	400	28
4c 6	3.10	13.8	15.0	17.9	179	511	36
4c 10	4.10	16.3	17.5	20.6	206	737	50
4c 16	5.10	19.0	20.2	23.6	236	1007	67
4c 25	6.40	22.6	23.8	27.3	273	1436	89
4c 35	7.80	26.0	27.2	31.1	311	1903	110
4c 50	9.20	29.6	30.8	35.0	350	2578	137
4c 70	10.80	34.0	35.2	39.8	398	3436	169
4c 95	12.80	39.0	40.2	45.2	452	4552	205
4c 120	14.50	43.6	44.8	50.2	502	5598	237
4c 150	16.30	48.7	49.9	55.7	557	6903	272
4c 185	18.00	53.7	55.0	61.2	612	8429	311
5c 1.5	1.50	10.8	12.0	14.7	147	294	16
5c 2.5	2.10	12.5	13.8	16.5	165	378	21
5c 4	2.50	13.7	14.9	17.8	178	480	28
5c 6	3.10	15.4	16.6	19.8	198	616	36
5c 10	4.10	18.2	19.4	22.8	228	894	50
5c 16	5.10	21.3	22.5	26.0	260	1228	67
5c 25	6.40	25.3	26.5	30.3	303	1761	89
5c 35	7.80	29.2	30.4	34.5	345	2340	110
5c 50	9.20	33.3	34.5	39.1	391	3191	137
7c 1.5	1.5	11.9	13.1	15.8	158	323	12
12c 1.5	1.5	16.1	17.3	20.4	204	507	10
19c 1.5	1.5	19.2	20.4	23.8	238	722	9
24c 1.5	1.5	22.7	23.9	27.5	275	897	9
27c 1.5	1.5	23.5	24.7	28.4	284	987	9
33c 1.5	1.5	25.5	26.7	30.4	304	1160	9
37c 1.5	1.5	26.6	27.8	31.7	317	1281	9
7c 2.5	2.1	13.8	15.1	18.0	180	428	21
12c 2.5	2.1	18.8	20.1	23.4	234	678	18
19c 2.5	2.1	22.5	23.8	27.3	273	978	15
24c 2.5	2.1	26.7	27.9	31.8	318	1226	15
27c 2.5	2.1	27.5	28.8	32.7	327	1344	15
33c 2.5	2.1	29.9	31.1	35.3	353	1597	15
37c 2.5	2.1	31.2	32.4	36.8	368	1766	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

ES

FLEXIBLE SHIPBOARD FIRE RESISTANT COLLECTIVE SCREENED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

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

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Aluminium/Laminate Tape

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-375	
AS/NZS 1660.5.3	IEC 60331-11	
AS/NZS 1660.5.6	IEC 60331-21	
	IEC 60332-1	
	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, GL, USCG, TC

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p 0.5	0.95	8.3	66	67
2p 0.5 (quad formation)	0.95	9.4	75	90
4p 0.5	0.95	14.3	115	151
8p 0.5	0.95	18.1	145	259
10p 0.5	0.95	19.5	156	309
12p 0.5	0.95	21.3	170	366
16p 0.5	0.95	23.5	188	469
20p 0.5	0.95	24.6	197	561
24p 0.5	0.95	26.3	211	663
27p 0.5	0.95	27.6	221	735
36p 0.5	0.95	31.3	251	966

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FLEXIBLE SHIPBOARD FIRE RESISTANT COLLECTIVE SCREENED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



ES

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p .75	1.20	9.4	76	85
2p .75 (quad formation)	1.20	10.5	84	113
4p .75	1.20	16.0	128	190
6p .75	1.20	18.3	146	263
8p .75	1.20	20.9	167	340
10p .75	1.20	22.8	182	414
12p .75	1.20	24.7	197	483
14p .75	1.20	26.0	208	556
16p .75	1.20	27.2	218	622
20p .75	1.20	28.7	230	754
24p .75	1.20	30.8	246	892
27p .75	1.20	32.3	258	989
36p .75	1.20	36.6	293	1301
1p 1.0	1.30	10.5	84	106
2p 1.0 (quad formation)	1.30	12.0	96	146
4p 1.0	1.30	18.6	149	244
8p 1.0	1.30	24.0	192	436
10p 1.0	1.30	26.2	210	530
12p 1.0	1.30	28.6	229	628
16p 1.0	1.30	31.6	253	807
20p 1.0	1.30	33.1	265	969
24p 1.0	1.30	35.5	284	1145
27p 1.0	1.30	37.4	299	1282
36p 1.0	1.30	42.4	339	1683
1p 1.5	1.50	10.8	86	120
2p 1.5 (quad formation)	1.50	12.4	99	170
4p 1.5	1.50	19.3	154	291
8p 1.5	1.50	24.9	199	528
10p 1.5	1.50	27.1	217	645
12p 1.5	1.50	29.7	237	766
16p 1.5	1.50	32.8	262	989
20p 1.5	1.50	34.6	277	1206
24p 1.5	1.50	37.0	296	1428
27p 1.5	1.50	39.0	312	1600
36p 1.5	1.50	44.0	352	2090
1p 2.5	2.10	12.3	98	161
2p 2.5 (quad formation)	2.10	13.9	112	228
4p 2.5	2.10	22.5	180	407
8p 2.5	2.10	29.1	233	742
10p 2.5	2.10	31.7	254	908
12p 2.5	2.10	34.6	277	1078
16p 2.5	2.10	38.3	306	1396
20p 2.5	2.10	40.4	323	1704
24p 2.5	2.10	43.2	345	2020
27p 2.5	2.10	45.6	364	2263
36p 2.5	2.10	51.6	413	2979

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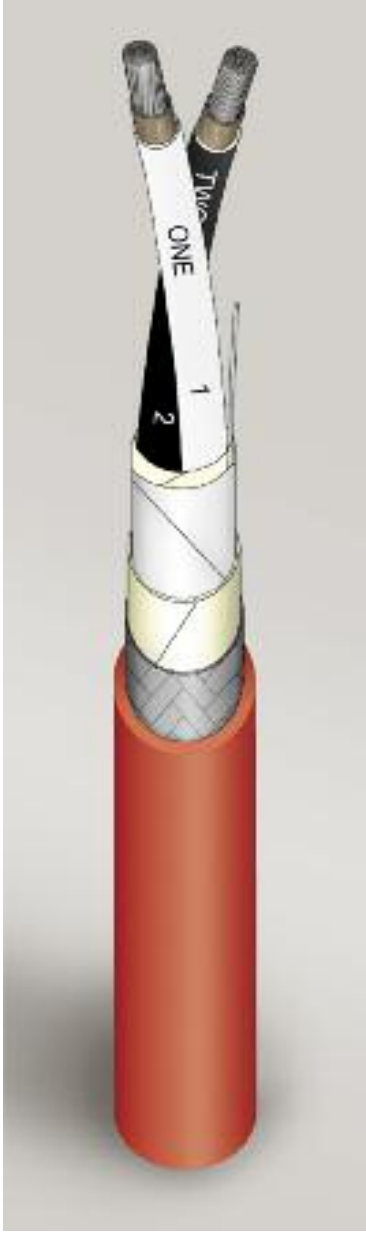
NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1t .75	1.20	9.9	79	98
3t .75	1.20	15.3	122	201
4t .75	1.20	16.7	134	251
7t .75	1.20	20.4	164	410
1t 1.5	1.50	11.5	92	144
3t 1.5	1.50	18.2	145	310
4t 1.5	1.50	20.1	161	398
7t 1.5	1.50	24.4	195	648

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FJ

FLEXIBLE SHIPBOARD FIRE RESISTANT COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all shipboard and marine applications, where circuit integrity is required under fire conditions and mechanical or EMC protection is also required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Aluminium/Laminate Tape

Overall Tape: Polyethylene

Braid/Armour Options:

Tinned Copper Wire Braid (90%)
Galvanized Steel Wire Braid (90%)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-375
AS/NZS 1660.5.3	IEC 60331-11
AS/NZS 1660.5.6	IEC 60331-21
	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

LR, DNV, ABS, BV, GL, USCG, TC

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	6.2	7.4	9.7	97	130
2p 0.5 (quad form)	0.95	7.1	8.4	10.7	107	155
4p 0.5	0.95	11.6	12.9	15.6	156	247
8p 0.5	0.95	15.1	16.4	19.3	193	382
10p 0.5	0.95	16.6	17.8	20.9	209	449
12p 0.5	0.95	18.2	19.4	22.7	227	519
16p 0.5	0.95	20.2	21.4	24.7	247	631
20p 0.5	0.95	21.3	22.5	26.0	260	739
24p 0.5	0.95	22.8	24.0	27.6	276	845
27p 0.5	0.95	24.1	25.3	29.0	290	936
36p 0.5	0.95	27.4	28.6	32.6	326	1184

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD FIRE RESISTANT COLLECTIVE SCREENED BRAIDED/ARMoured INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLEXIBLE
RETARDANT

FJ

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	7.1	8.4	10.7	107	153
2p .75 (quad form)	1.20	8.2	9.5	12.0	120	190
4p .75	1.20	13.3	14.5	17.4	174	303
8p .75	1.20	17.8	19.0	22.1	221	484
10p .75	1.20	19.4	20.7	24.0	240	571
12p .75	1.20	21.3	22.6	26.1	261	662
16p .75	1.20	23.7	24.9	28.7	287	819
20p .75	1.20	25.0	26.2	30.0	300	954
24p .75	1.20	26.8	28.0	32.0	320	1105
27p .75	1.20	28.3	29.5	33.7	337	1224
36p .75	1.20	32.2	33.5	37.8	378	1555
1p 1.0	1.30	8.2	9.4	11.9	119	186
2p 1.0 (quad form)	1.30	9.5	10.7	13.2	132	230
4p 1.0	1.30	15.7	17.0	20.1	201	378
8p 1.0	1.30	20.7	21.9	25.5	255	609
10p 1.0	1.30	22.7	23.9	27.4	274	712
12p 1.0	1.30	24.9	26.1	29.8	298	827
16p 1.0	1.30	27.7	28.9	32.8	328	1027
20p 1.0	1.30	29.2	30.4	34.6	346	1210
24p 1.0	1.30	31.3	32.5	36.9	369	1404
27p 1.0	1.30	33.1	34.3	38.6	386	1544
36p 1.0	1.30	37.6	38.9	43.6	436	1980
1p 1.5	1.50	8.5	9.7	12.2	122	203
2p 1.5 (quad form)	1.50	9.9	11.1	13.6	136	257
4p 1.5	1.50	16.4	17.6	20.7	207	430
8p 1.5	1.50	21.6	22.8	26.3	263	709
10p 1.5	1.50	23.6	24.8	28.6	286	842
12p 1.5	1.50	25.9	27.2	31.1	311	981
16p 1.5	1.50	28.8	30.1	34.2	342	1228
20p 1.5	1.50	30.4	31.6	35.8	358	1447
24p 1.5	1.50	32.6	33.9	38.2	382	1686
27p 1.5	1.50	34.5	35.7	40.3	403	1873
36p 1.5	1.50	39.3	40.5	45.5	455	2413
1p 2.5	2.10	9.8	11.0	13.5	135	252
2p 2.5 (quad form)	2.10	11.4	12.7	15.4	154	333
4p 2.5	2.10	19.2	20.4	23.7	237	562
8p 2.5	2.10	25.4	26.6	30.3	303	945
10p 2.5	2.10	27.8	29.0	32.9	329	1129
12p 2.5	2.10	30.5	31.7	35.9	359	1320
16p 2.5	2.10	33.9	35.1	39.7	397	1676
20p 2.5	2.10	35.8	37.0	41.8	418	1999
24p 2.5	2.10	38.4	39.6	44.6	446	2336
27p 2.5	2.10	40.6	41.8	46.8	468	2583
36p 2.5	2.10	46.2	47.4	53.0	530	3357

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

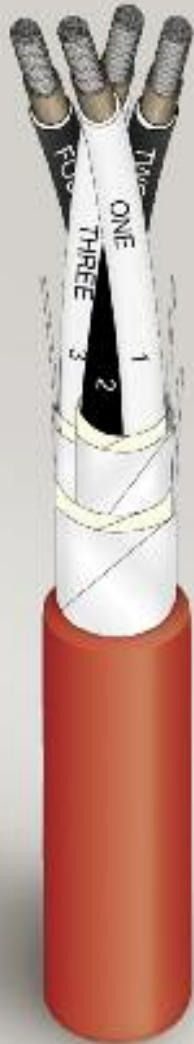
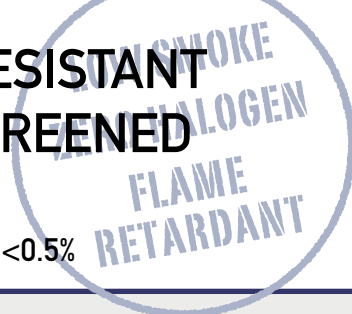
NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t .75	1.20	7.6	8.8	11.1	111	162
3t .75	1.20	12.6	13.8	16.5	165	304
4t .75	1.20	14.0	15.2	18.1	181	370
7t .75	1.20	17.3	18.6	21.7	217	549
1t 1.5	1.50	9.0	10.3	12.8	128	217
3t 1.5	1.50	15.3	16.5	19.4	194	431
4t 1.5	1.50	17.0	18.2	21.3	213	531
7t 1.5	1.50	21.0	22.3	25.8	258	818

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FC

FLEXIBLE SHIPBOARD FIRE RESISTANT INDIVIDUAL & COLLECTIVE SCREENED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

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

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Individual and Collective Aluminium/Laminate Tape

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-375
AS/NZS 1660.5.3	IEC 60331-11
AS/NZS 1660.5.6	IEC 60331-21
	IEC 60332-1
	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

LR, DNV, ABS, GL, USCG,

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p 0.5	0.95	8.3	66	65
2p 0.5	0.95	13.1	105	128
4p 0.5	0.95	15.6	125	189
8p 0.5	0.95	20.0	160	336
10p 0.5	0.95	21.6	173	404
12p 0.5	0.95	23.6	189	479
16p 0.5	0.95	26.1	209	616
20p 0.5	0.95	27.3	218	741
24p 0.5	0.95	29.2	234	877
27p 0.5	0.95	30.8	247	983
36p 0.5	0.95	34.8	278	1281

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FLEXIBLE SHIPBOARD FIRE RESISTANT INDIVIDUAL & COLLECTIVE SCREENED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

NO SMOKE
NO HALOGEN
FLAME
RETARDANT

FC

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1p .75	1.20	9.4	76	83
2p .75	1.20	14.9	119	160
4p .75	1.20	17.8	142	236
8p .75	1.20	22.9	183	424
10p .75	1.20	24.7	198	509
12p .75	1.20	27.0	216	604
16p .75	1.20	29.8	239	779
20p .75	1.20	31.4	251	948
24p .75	1.20	33.6	269	1121
27p .75	1.20	35.3	282	1246
36p .75	1.20	40.0	320	1640
1p 1.0	1.30	10.5	84	103
2p 1.0	1.30	16.6	133	200
4p 1.0	1.30	20.1	161	303
8p 1.0	1.30	26.0	208	545
10p 1.0	1.30	28.3	227	666
12p 1.0	1.30	30.9	247	789
16p 1.0	1.30	34.2	274	1017
20p 1.0	1.30	35.8	287	1226
24p 1.0	1.30	38.3	307	1452
27p 1.0	1.30	40.4	324	1626
36p 1.0	1.30	45.8	367	2138
1p 1.5	1.50	10.8	86	117
2p 1.5	1.50	17.3	139	231
4p 1.5	1.50	20.5	164	349
8p 1.5	1.50	26.9	215	639
10p 1.5	1.50	29.3	234	783
12p 1.5	1.50	32.0	256	929
16p 1.5	1.50	35.4	283	1203
20p 1.5	1.50	37.3	298	1468
24p 1.5	1.50	39.9	319	1740
27p 1.5	1.50	42.1	336	1950
36p 1.5	1.50	47.7	381	2566
1p 2.5	2.10	12.3	98	157
2p 2.5	2.10	19.8	158	306
4p 2.5	2.10	23.8	190	472
8p 2.5	2.10	31.1	248	877
10p 2.5	2.10	33.9	271	1074
12p 2.5	2.10	37.0	296	1276
16p 2.5	2.10	40.9	327	1655
20p 2.5	2.10	43.0	344	2024
24p 2.5	2.10	46.0	368	2400
27p 2.5	2.10	48.6	389	2689
36p 2.5	2.10	55.0	440	3541

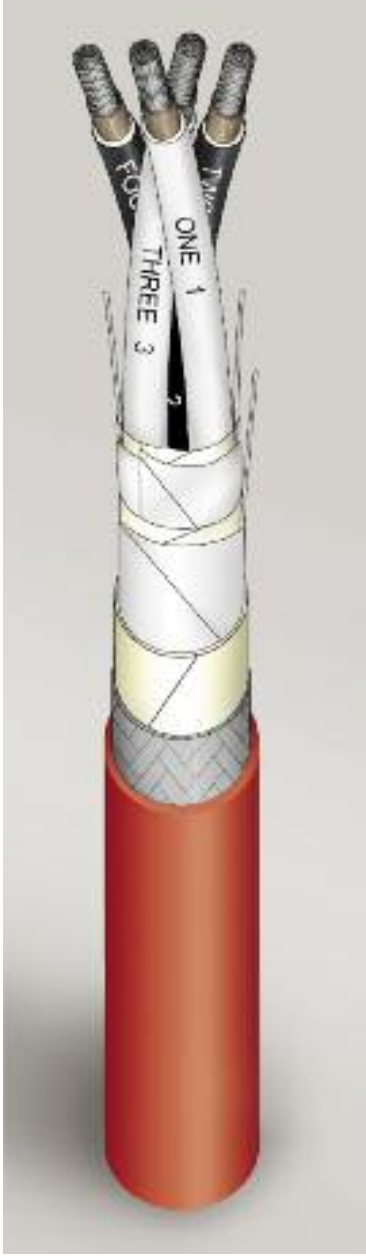
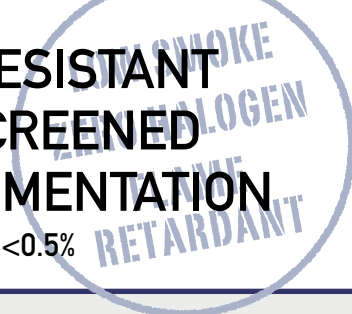
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NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)
1t 0.75	1.2	9.9	79	94
3t 0.75	1.2	16.4	131	233
4t 0.75	1.2	18.2	146	298
7t 0.75	1.2	22.0	176	479
1t 1.5	1.5	11.5	92	139
3t 1.5	1.5	19.3	154	352
4t 1.5	1.5	21.4	171	453
7t 1.5	1.5	26.1	209	748

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FLEXIBLE SHIPBOARD FIRE RESISTANT INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all shipboard and marine applications, where circuit integrity is required under fire conditions and mechanical or EMC protection is also required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene Tape

Drain Wire: Tinned annealed copper

Screen: Individual and Collective Aluminium/Laminate Tape

Overall Tape: Polyethylene

Braid/Armour Options:

Tinned Copper Wire Braid (90%)
Galvanized Steel Wire Braid (90%)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228
AS/NZS 1660.5.1	IEC 60092-350
AS/NZS 1660.5.2	IEC 60092-375
AS/NZS 1660.5.3	IEC 60331-11
AS/NZS 1660.5.6	IEC 60331-21
	IEC 60332-1
	IEC 60332-3(A)
	IEC 60754-1&2
	IEC 61034-1&2

APPROVALS

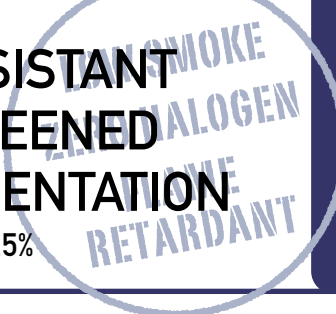
LR, DNV, ABS, GL, USCG,

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	6.2	7.4	9.7	97	130
2p 0.5	0.95	10.9	12.1	14.9	149	265
4p 0.5	0.95	13.2	14.4	17.4	174	302
8p 0.5	0.95	17.2	18.4	21.5	215	475
10p 0.5	0.95	18.8	20.0	23.3	233	561
12p 0.5	0.95	20.6	21.8	25.3	253	650
16p 0.5	0.95	22.9	24.1	27.6	276	797
20p 0.5	0.95	24.1	25.3	29.0	290	937
24p 0.5	0.95	25.8	27.0	30.9	309	1086
27p 0.5	0.95	27.2	28.4	32.4	324	1194
36p 0.5	0.95	30.9	32.1	36.5	365	1530

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FLEXIBLE SHIPBOARD FIRE RESISTANT INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



FL

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	7.1	8.4	10.7	107	153
2p .75	1.20	12.5	13.7	16.4	164	329
4p .75	1.20	15.2	16.4	19.3	193	360
8p .75	1.20	19.8	21.1	24.4	244	583
10p .75	1.20	21.7	22.9	26.4	264	691
12p .75	1.20	23.7	25.0	28.7	287	802
16p .75	1.20	26.4	27.6	31.6	316	997
20p .75	1.20	27.8	29.0	33.0	330	1167
24p .75	1.20	29.8	31.0	35.2	352	1355
27p .75	1.20	31.4	32.7	37.0	370	1502
36p .75	1.20	35.8	37.0	41.8	418	1929
1p 1.0	1.30	8.2	9.4	11.9	119	186
2p 1.0	1.30	14.2	15.4	18.3	183	417
4p 1.0	1.30	17.3	18.5	21.7	217	444
8p 1.0	1.30	22.8	24.0	27.5	275	728
10p 1.0	1.30	24.9	26.1	29.9	299	865
12p 1.0	1.30	27.3	28.5	32.5	325	1006
16p 1.0	1.30	30.4	31.6	35.7	357	1257
20p 1.0	1.30	32.0	33.2	37.6	376	1489
24p 1.0	1.30	34.3	35.5	40.1	401	1732
27p 1.0	1.30	36.2	37.4	42.2	422	1922
36p 1.0	1.30	41.2	42.4	47.6	476	2471
1p 1.5	1.50	8.5	9.7	12.2	122	203
2p 1.5	1.50	14.7	15.9	18.9	189	456
4p 1.5	1.50	18.0	19.2	22.5	225	503
8p 1.5	1.50	23.6	24.9	28.6	286	837
10p 1.5	1.50	25.9	27.1	31.0	310	998
12p 1.5	1.50	28.3	29.6	33.7	337	1164
16p 1.5	1.50	31.5	32.8	37.1	371	1463
20p 1.5	1.50	33.2	34.4	39.0	390	1742
24p 1.5	1.50	35.6	36.8	41.4	414	2020
27p 1.5	1.50	37.6	38.8	43.6	436	2245
36p 1.5	1.50	42.8	44.0	49.2	492	2899
1p 2.5	2.10	9.8	11.0	13.5	135	252
2p 2.5	2.10	16.9	18.2	21.3	213	594
4p 2.5	2.10	20.8	22.0	25.5	255	647
8p 2.5	2.10	27.4	28.6	32.6	326	1096
10p 2.5	2.10	30.0	31.2	35.4	354	1314
12p 2.5	2.10	32.9	34.1	38.5	385	1537
16p 2.5	2.10	36.6	37.8	42.6	426	1957
20p 2.5	2.10	38.6	39.8	44.8	448	2341
24p 2.5	2.10	41.4	42.6	47.8	478	2739
27p 2.5	2.10	43.7	44.9	50.3	503	3047
36p 2.5	2.10	49.7	51.0	56.8	568	3946

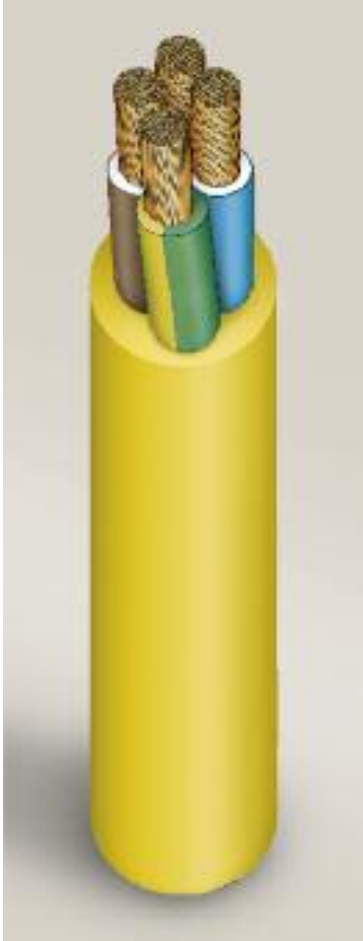
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NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t 0.75	1.20	6.5	9.3	11.8	118	178
3t 0.75	1.20	13.5	15.8	18.7	187	382
4t 0.75	1.20	15.1	17.4	20.6	206	466
7t 0.75	1.20	18.8	21.2	24.5	245	694
1t 1.5	1.50	7.9	10.8	13.3	133	233
3t 1.5	1.50	16.1	18.5	21.6	216	525
4t 1.5	1.50	18.1	20.4	23.7	237	648
7t 1.5	1.50	22.5	24.9	28.6	286	996

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FLEXIBLE SHOREPOWER

0.6/1kV 110°C



APPLICATION

Flexible Shorepower cables suitable for all shipboard and marine applications.

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Insulation: LSFLEX® R-30 (X-HF-110)
Cross-linked, Thermoset, Elastomeric, Flame Retardant, Low Smoke, Zero Halogen
Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Ripcord: High strength ripcord under sheath..

Sheath: E-Rubber® N-40, Elastomeric Rubber, Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE IDENTIFICATION

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125
AS/NZS 5000.1
AS/NZS 3191

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	9.1	36	83	29
2c 2.5	2.10	10.8	43	120	41
2c 4	2.50	11.8	47	161	55
2c 6	3.10	13.3	53	217	69
2c 10	4.10	17.6	70	378	95
2c 16	5.10	20.5	82	538	125
2c 25	6.40	24.3	97	800	170
2c 35	7.80	27.7	111	1071	205

*AS/NZS 3008, Table 11/14 (Fixed – Unenclosed spaced) 110°C operating temperature, 40°C ambient temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHOREPOWER

0.6/1kV 110°C

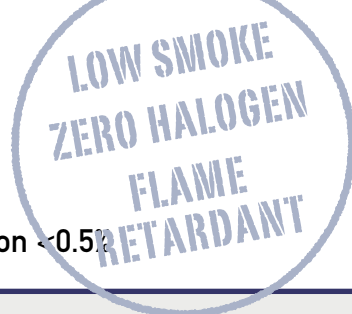
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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
3c 1.5	1.50	9.8	39	104	25
3c 2.5	2.10	11.3	45	148	35
3c 4	2.50	12.4	50	203	47
3c 6	3.10	14.2	57	281	59
3c 10	4.10	18.7	75	486	81
3c 16	5.10	21.8	87	696	105
3c 25	6.40	26.0	104	1051	145
3c 35	7.80	29.6	118	1414	175
3c 50	9.20	33.3	133	1942	215
3c 70	10.80	38.0	152	2607	270
3c 95	12.80	43.4	173	3490	335
3c 120	14.50	48.3	193	4324	390
3c 150	16.30	54.1	216	5403	445
3c 185	18.00	59.6	239	6647	510
3c 240	20.30	66.3	265	8466	610
3c 300	23.00	73.9	296	10476	700
4c 1.5	1.50	10.7	43	129	25
4c 2.5	2.10	12.4	50	185	35
4c 4	2.50	13.8	55	258	47
4c 6	3.10	15.8	63	358	59
4c 10	4.10	20.5	82	613	81
4c 16	5.10	23.9	96	880	105
4c 25	6.40	28.5	114	1333	145
4c 35	7.80	32.5	130	1795	175
4c 50	9.20	36.8	147	2486	215
4c 70	10.80	42.2	169	3351	270
4c 95	12.80	48.0	192	4485	335
4c 120	14.50	53.6	215	5567	390
4c 150	16.30	60.2	241	6965	445
4c 185	18.00	66.3	265	8562	510
4c 240	20.30	73.8	295	10927	610
4c 300	23.00	82.2	329	13504	700
4c 400	26.00	92.2	369	17647	810
5c 1.5	1.50	11.8	47	157	25
5c 2.5	2.10	13.9	56	229	35
5c 4	2.50	15.3	61	315	47
5c 6	3.10	17.4	70	436	59
5c 10	4.10	22.6	90	750	81
5c 16	5.10	26.4	105	1077	105
5c 25	6.40	31.7	127	1641	145
5c 35	7.80	36.3	145	2221	175
5c 50	9.20	41.1	164	3074	215

*AS/NZS 3008, Table 11/14 (Fixed – Unenclosed spaced) 110°C operating temperature, 40°C ambient temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE SHIPBOARD SWITCHBOARD/PANEL WIRE

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Single Insulated Power Cables suitable for all shipboard and marine applications

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Available in plain or tinned.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, BV, GL, RAN, USCG

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c .75	1.20	2.7	11	12	16
1c 1.0	1.30	2.8	11	14	20
1c 1.5	1.50	3.0	12	19	26
1c 2.5	2.10	3.6	14	29	32
1c 4	2.50	4.0	16	43	43
1c 6	3.10	4.7	19	62	52
1c 10	4.10	5.7	23	104	72
1c 16	5.20	6.9	27	155	96
1c 25	6.40	8.5	34	243	127
1c 35	7.80	9.9	40	335	157
1c 50	9.20	11.5	46	477	196
1c 70	10.80	13.3	53	651	242
1c 95	12.80	15.3	61	883	293
1c 120	14.50	17.3	69	1098	339
1c 150	16.30	19.5	78	1375	389
1c 185	18.00	21.7	87	1701	444
1c 240	20.30	24.2	97	2191	522
1c 300	23.00	27.2	109	2712	601
1c 400	26.00	30.7	123	3580	670
1c 500	29.20	34.4	137	4529	720
1c 630	32.80	38.4	154	5698	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

OFFSHORE CABLES

POWER AND CONTROL 110°C

Braided/Armoured

PJ 42

INSTRUMENTATION 110°C

Collective screened

Braided/Armoured

RB 44

Individual and collective screened

Braided/Armoured

FZ 46

POWER AND CONTROL - Fire Resistant 110°C

Braided/Armoured

HT 48

INSTRUMENTATION - Fire Resistant 110°C

Collective screened

Braided/Armoured

FK 50

Individual and collective screened

Braided/Armoured

FE 52

SWITCHBOARD/PANEL WIRE 110°C

UP 54



FLEXIBLE OFFSHORE BRAIDED/ARMoured POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

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

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Ripcord: High strength ripcord under bedding.

Bedding: LSFLEX®S-50 Low Smoke, Zero Halogen (pressure extruded)

Braid/Armour Options:
Galvanized Steel Wire Braid (90%)
Tinned Copper Wire Braid (90%)
(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. SHF-2 also available.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	NEK 606
AS/NZS 1660.5.1	IEC 60092-350	
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, USCG, TC

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c 10	4.10	8.0	9.2	11.7	70	231	198
1c 16	5.10	9.2	10.4	12.9	77	299	264
1c 25	6.40	11.0	12.2	14.9	90	421	376
1c 35	7.80	12.4	13.7	16.4	98	535	491
1c 50	9.20	14.2	15.4	18.3	110	713	653
1c 70	10.80	16.0	17.2	20.4	122	922	857
1c 95	12.80	18.3	19.5	22.8	137	1201	1122
1c 120	14.50	20.2	21.4	24.8	149	1449	1370
1c 150	16.30	22.7	23.9	27.4	165	1781	1679
1c 185	18.00	25.0	26.2	30.0	180	2163	2043
1c 240	20.30	27.8	29.0	32.9	198	2719	2578
1c 300	23.00	30.9	32.2	36.5	219	3327	3151
1c 400	26.00	34.6	35.8	40.4	242	4287	4093
1c 500	29.20	38.5	39.7	44.7	268	5349	5111
1c 630	32.80	42.8	44.0	49.2	295	6632	6369

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

FLEXIBLE OFFSHORE BRAIDED/ARMOURED POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
RETARDANT

PJ

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	8.3	9.5	12.0	72	182	20
2c 2.5	2.10	9.5	10.7	13.2	79	226	26
2c 4	2.50	10.6	11.8	14.5	87	281	34
2c 6	3.10	11.8	13.1	15.8	95	346	44
2c 10	4.10	14.1	15.3	18.2	109	488	61
2c 16	5.10	16.4	17.6	20.7	124	653	82
2c 25	6.40	19.8	21.0	24.3	146	931	108
2c 35	7.80	22.7	23.9	27.5	165	1213	133
3c 1.5	1.50	8.7	10.0	12.5	75	205	16
3c 2.5	2.10	10.1	11.3	13.8	83	259	21
3c 4	2.50	11.2	12.4	15.1	91	329	28
3c 6	3.10	12.5	13.8	16.5	99	413	36
3c 10	4.10	14.9	16.2	19.1	114	596	50
3c 16	5.10	17.6	18.8	22.0	132	819	67
3c 25	6.40	21.2	22.5	26.0	156	1192	89
3c 35	7.80	24.4	25.6	29.4	176	1566	110
3c 50	9.20	27.7	29.0	32.9	197	2106	137
3c 70	10.80	31.8	33.0	37.4	224	2784	169
3c 95	12.80	36.3	37.6	42.3	254	3668	205
3c 120	14.50	40.6	41.9	46.8	281	4495	237
3c 150	16.30	45.8	47.0	52.4	314	5581	272
3c 185	18.00	50.5	51.8	57.6	345	6810	311
3c 240	20.30	56.3	57.6	64.0	384	8629	365
4c 1.5	1.50	9.5	10.7	13.2	79	234	16
4c 2.5	2.10	11.2	12.4	15.1	91	311	21
4c 4	2.50	12.2	13.4	16.1	97	387	28
4c 6	3.10	13.9	15.1	18.1	108	504	36
4c 10	4.10	16.4	17.6	20.7	124	727	50
4c 16	5.10	19.3	20.6	23.9	143	1008	67
4c 25	6.40	23.4	24.6	28.3	170	1477	89
4c 35	7.80	26.9	28.1	32.1	192	1952	110
4c 50	9.20	30.6	32.2	36.6	220	2735	137
4c 70	10.80	35.4	36.6	41.1	247	3520	169
4c 95	12.80	40.4	41.6	46.6	279	4650	205
4c 120	14.50	45.4	46.6	52.0	312	5737	237
4c 150	16.30	50.9	52.1	57.9	348	7104	272
4c 185	18.00	56.4	57.6	64.0	384	8716	311
5c 1.5	1.50	10.6	11.8	14.5	87	277	16
5c 2.5	2.10	12.2	13.5	16.2	97	358	21
5c 4	2.50	13.4	14.6	17.5	105	455	28
5c 6	3.10	15.3	16.5	19.5	117	590	36
5c 10	4.10	18.3	19.5	22.8	137	876	50
5c 16	5.10	21.6	22.8	26.4	158	1218	67
5c 25	6.40	26.1	27.4	31.3	188	1792	89
5c 35	7.80	30.1	31.3	35.4	213	2373	110
5c 50	9.20	34.5	35.7	40.3	242	3247	137
5c 70	10.80	39.6	40.8	45.8	275	4310	169
5c 95	12.80	45.4	46.6	52.0	312	5716	205
5c 120	14.50	50.8	52.0	57.8	347	7032	237
5c 150	16.30	57.2	58.4	64.8	389	8749	272
5c 185	18.00	63.3	64.5	71.4	428	10710	311
5c 240	20.30	70.5	71.7	79.2	475	13590	365
7c 1.5	1.5	11.5	12.7	15.4	93	319	12
10c 1.5	1.5	14.5	15.8	18.7	112	433	11
12c 1.5	1.5	15.1	16.4	19.3	116	481	10
14c 1.5	1.5	15.9	17.1	20.2	121	537	10
16c 1.5	1.5	16.8	18.0	21.1	127	590	9
19c 1.5	1.5	17.9	19.1	22.2	133	670	9
21c 1.5	1.5	18.9	20.2	23.5	141	733	9
24c 1.5	1.5	21.0	22.2	25.7	154	837	9
27c 1.5	1.5	21.6	22.8	26.3	158	905	9
33c 1.5	1.5	23.2	24.4	28.2	169	1057	9
37c 1.5	1.5	24.3	25.5	29.3	176	1160	9
7c 2.5	2.1	13.3	14.6	17.5	105	425	21
10c 2.5	2.1	17.0	18.2	21.3	128	581	20
12c 2.5	2.1	17.9	19.1	22.2	133	659	18
14c 2.5	2.1	18.8	20.0	23.3	140	740	18
16c 2.5	2.1	19.9	21.1	24.4	147	817	16
19c 2.5	2.1	21.2	22.4	25.9	156	940	15
21c 2.5	2.1	22.4	23.7	27.2	163	1021	15
24c 2.5	2.1	24.8	26.0	29.8	179	1166	15
27c 2.5	2.1	25.5	26.7	30.5	183	1268	15
33c 2.5	2.1	27.7	28.9	32.9	197	1501	15
37c 2.5	2.1	28.8	30.0	34.2	205	1650	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

RB

FLEXIBLE OFFSHORE COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT



APPLICATION

Flexible Instrumentation cables suitable for all offshore applications, where mechanical or EMC protection is required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Aluminium/Laminate Tape

Ripcord: High strength ripcord under bedding.

Bedding: LSFLEX®S-50 Low Smoke, Zero Halogen (pressure extruded)

Braid/Armour Options:

Galvanized Steel Wire Braid (90%)

Tinned Copper Wire Braid (90%)

(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. SHF-2 also available.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	
AS/NZS 1660.5.1	IEC 60092-350	
AS/NZS 1660.5.2	IEC 60092-375	NEK 606
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	
DEF(AUST) 5000		

APPROVALS

LR, DNV, ABS, USCG

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	7.6	8.8	11.1	67	148
2p 0.5(quad form)	0.95	8.3	9.6	12.1	72	174
4p 0.5	0.95	12.2	13.4	16.1	97	266
8p 0.5	0.95	15.2	16.5	19.4	116	383
10p 0.5	0.95	16.4	17.6	20.7	124	438
12p 0.5	0.95	17.9	19.1	22.5	135	504
16p 0.5	0.95	19.6	20.8	24.1	145	593
20p 0.5	0.95	20.7	21.9	25.4	153	684
24p 0.5	0.95	21.9	23.1	26.7	160	766
27p 0.5	0.95	23.0	24.2	27.7	166	830
36p 0.5	0.95	25.9	27.1	31.1	186	1042

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE OFFSHORE COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT

RB

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	8.1	9.3	11.8	71	167
2p .75(quad form)	1.20	8.9	10.2	12.7	76	196
4p .75	1.20	13.3	14.5	17.4	104	312
8p .75	1.20	16.7	17.9	21.0	126	461
10p .75	1.20	18.2	19.4	22.7	136	539
12p .75	1.20	19.7	20.9	24.2	145	607
16p .75	1.20	21.7	23.0	26.5	159	739
20p .75	1.20	22.7	24.0	27.5	165	841
24p .75	1.20	24.3	25.6	29.3	176	969
27p .75	1.20	25.5	26.7	30.5	183	1054
36p .75	1.20	28.8	30.0	34.2	205	1331
1p 1.0	1.30	9.0	10.2	12.7	76	194
2p 1.0(quad form)	1.30	10.0	11.2	13.7	82	232
4p 1.0	1.30	15.4	16.6	19.7	118	389
8p 1.0	1.30	19.4	20.7	24.0	144	584
10p 1.0	1.30	21.2	22.4	25.9	156	685
12p 1.0	1.30	22.9	24.2	27.7	166	774
16p 1.0	1.30	25.4	26.6	30.3	182	948
20p 1.0	1.30	26.6	27.8	31.7	190	1095
24p 1.0	1.30	28.4	29.7	33.8	203	1263
27p 1.0	1.30	29.8	31.1	35.2	211	1377
36p 1.0	1.30	33.7	34.9	39.5	237	1744
1p 1.5	1.50	9.4	10.6	13.1	79	212
2p 1.5(quad form)	1.50	10.7	11.9	14.6	88	270
4p 1.5	1.50	16.2	17.4	20.6	123	442
8p 1.5	1.50	20.8	22.0	25.6	153	699
10p 1.5	1.50	22.5	23.7	27.2	163	806
12p 1.5	1.50	24.6	25.8	29.5	177	936
16p 1.5	1.50	26.9	28.1	32.1	193	1145
20p 1.5	1.50	28.4	29.6	33.8	203	1345
24p 1.5	1.50	30.2	31.4	35.6	214	1535
27p 1.5	1.50	31.9	33.1	37.5	225	1704
36p 1.5	1.50	36.0	37.3	42.0	252	2170
1p 2.5	2.10	10.8	12.1	14.8	89	269
2p 2.5(quad form)	2.10	12.2	13.4	16.1	97	339
4p 2.5	2.10	19.0	20.2	23.5	141	585
8p 2.5	2.10	24.5	25.7	29.5	177	948
10p 2.5	2.10	26.5	27.7	31.7	190	1114
12p 2.5	2.10	29.0	30.2	34.4	206	1297
16p 2.5	2.10	32.0	33.3	37.6	226	1614
20p 2.5	2.10	33.6	34.8	39.4	236	1895
24p 2.5	2.10	36.0	37.2	42.0	252	2204
27p 2.5	2.10	38.0	39.2	44.0	264	2435
36p 2.5	2.10	42.9	44.1	49.3	296	3117

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t 0.75	1.20	8.5	9.7	12.2	73	179
3t 0.75	1.20	12.4	13.7	16.4	98	304
4t 0.75	1.20	13.5	14.8	17.7	106	358
7t 0.75	1.20	16.3	17.6	20.7	124	507
1t 1.5	1.50	9.9	11.1	13.6	81	233
3t 1.5	1.50	15.2	16.5	19.4	116	440
4t 1.5	1.50	16.6	17.8	21.0	126	527
7t 1.5	1.50	20.2	21.4	24.7	148	773

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE OFFSHORE INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ ARMoured INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all offshore applications, where mechanical or EMC protection is required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Individual and Collective Aluminium/Laminate Tape

Ripcord: High strength ripcord under bedding.

Bedding: LSFLEX®F-10 Low Smoke, Zero Halogen (pressure extruded)

Braid/Armour Options:

Galvanized Steel Wire Braid (90%)
Tinned Copper Wire Braid (90%)
(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. SHF-2 also available.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	NEK 606
AS/NZS 1660.5.1	IEC 60092-350	
AS/NZS 1660.5.2	IEC 60092-375	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

DEF(AUST) 5000

APPROVALS

LR, DNV, ABS, USCG

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	7.6	8.8	11.1	67	148
2p 0.5	0.95	11.6	12.8	15.5	93	273
4p 0.5	0.95	13.5	14.7	17.6	106	321
8p 0.5	0.95	17.0	18.2	21.3	128	476
10p 0.5	0.95	18.5	19.8	23.1	138	558
12p 0.5	0.95	20.0	21.2	24.6	147	628
16p 0.5	0.95	22.1	23.4	26.9	161	768
20p 0.5	0.95	23.1	24.4	28.1	169	883
24p 0.5	0.95	24.8	26.0	29.8	179	1008
27p 0.5	0.95	26.0	27.2	31.2	187	1107
36p 0.5	0.95	29.3	30.5	34.7	208	1388

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE OFFSHORE INDIVIDUAL & COLLECTIVE SCREENED BRAIDED ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FLAME
RETARDANT

FZ

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	8.1	9.3	11.8	71	167
2p .75	1.20	12.4	13.7	16.4	98	311
4p .75	1.20	14.8	16.0	18.9	113	370
8p .75	1.20	18.6	19.9	23.2	139	566
10p .75	1.20	20.1	21.4	24.7	148	649
12p .75	1.20	22.0	23.2	26.7	160	751
16p .75	1.20	24.3	25.5	29.3	176	922
20p .75	1.20	25.4	26.6	30.4	182	1057
24p .75	1.20	27.0	28.2	32.2	193	1211
27p .75	1.20	28.5	29.8	33.9	204	1343
36p .75	1.20	32.2	33.4	37.8	227	1692
1p 1.0	1.30	9.0	10.2	12.7	76	194
2p 1.0	1.30	14.1	15.4	18.3	110	393
4p 1.0	1.30	16.3	17.6	20.7	124	448
8p 1.0	1.30	21.4	22.6	26.2	157	716
10p 1.0	1.30	23.1	24.4	28.1	169	834
12p 1.0	1.30	25.3	26.5	30.2	181	959
16p 1.0	1.30	27.9	29.2	33.1	199	1184
20p 1.0	1.30	29.2	30.5	34.6	208	1377
24p 1.0	1.30	31.3	32.5	36.9	221	1594
27p 1.0	1.30	32.9	34.1	38.4	231	1744
36p 1.0	1.30	37.1	38.3	43.1	259	2221
1p 1.5	1.50	9.4	10.6	13.1	79	212
2p 1.5	1.50	14.8	16.0	19.0	114	435
4p 1.5	1.50	17.7	18.9	22.0	132	515
8p 1.5	1.50	22.6	23.8	27.3	164	818
10p 1.5	1.50	24.6	25.8	29.6	177	969
12p 1.5	1.50	26.7	27.9	31.8	191	1115
16p 1.5	1.50	29.5	30.7	34.9	209	1386
20p 1.5	1.50	31.1	32.3	36.7	220	1634
24p 1.5	1.50	33.1	34.3	38.7	232	1873
27p 1.5	1.50	34.9	36.2	40.7	244	2080
36p 1.5	1.50	39.4	40.7	45.7	274	2658
1p 2.5	2.10	10.8	12.1	14.8	89	269
2p 2.5	2.10	16.9	18.1	21.2	127	561
4p 2.5	2.10	20.3	21.5	24.8	149	661
8p 2.5	2.10	26.3	27.5	31.4	189	1098
10p 2.5	2.10	28.7	29.9	34.0	204	1306
12p 2.5	2.10	31.3	32.5	36.9	221	1522
16p 2.5	2.10	34.6	35.8	40.4	242	1903
20p 2.5	2.10	36.3	37.5	42.3	254	2242
24p 2.5	2.10	38.8	40.0	45.0	270	2612
27p 2.5	2.10	40.8	42.0	47.0	282	2874
36p 2.5	2.10	46.3	47.5	53.1	319	3723

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t 0.75	1.20	9.4	9.7	12.2	73	179
3t 0.75	1.20	15.7	14.8	17.7	106	351
4t 0.75	1.20	17.4	16.3	19.2	115	417
7t 0.75	1.20	21.0	19.3	22.7	136	603
1t 1.5	1.50	10.1	11.1	13.6	81	233
3t 1.5	1.50	17.0	17.6	20.7	124	496
4t 1.5	1.50	18.8	19.4	22.7	136	605
7t 1.5	1.50	22.7	23.2	26.7	160	890

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HT

FLEXIBLE OFFSHORE FIRE RESISTANT BRAIDED/ARMoured POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Power and Control cables suitable for all offshore applications, where circuit integrity is required under fire conditions and mechanical or EMC protection is also required.

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

Ripcord: High strength ripcord under bedding.

Bedding: LSFLEX®F-10 Low Smoke, Zero Halogen (pressure extruded)

Braid/Armour Options:

Galvanized Steel Wire Braid (90%)
Tinned Copper Wire Braid (90%)
(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic, Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. SHF-2 also available.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	NEK 606
AS/NZS 1660.5.1	IEC 60092-350	
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60331-11	
AS/NZS 1660.5.6	IEC 60331-21	

IEC 60332-1
IEC 60332-3(A)
IEC 60754-1&2

APPROVALS

IEC 61034-1&2
LR, DNV, ABS, USCG

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c 10	4.10	8.7	10.0	12.5	125	249	72
1c 16	5.10	9.9	11.1	13.6	136	320	96
1c 25	6.40	11.6	12.9	15.6	156	440	127
1c 35	7.80	13.1	14.3	17.2	172	561	157
1c 50	9.20	14.9	16.1	19.0	190	737	196
1c 70	10.80	16.8	18.0	21.1	211	953	242
1c 95	12.80	19.1	20.3	23.7	237	1240	293
1c 120	14.50	21.2	22.5	26.0	260	1509	339
1c 150	16.30	23.4	24.6	28.4	284	1833	389
1c 185	18.00	25.7	27.0	30.9	309	2219	444
1c 240	20.30	28.5	29.7	33.9	339	2780	522
1c 300	23.00	31.7	32.9	37.3	373	3384	601
1c 400	26.00	35.4	36.6	41.1	411	4349	670
1c 500	29.20	39.2	40.5	45.4	454	5418	720
1c 630	32.80	43.5	44.8	50.1	501	6722	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE OFFSHORE FIRE RESISTANT BRAIDED/ARMOURED POWER & CONTROL

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



HT

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
2c 1.5	1.50	9.7	10.9	13.4	134	218	20
2c 2.5	2.10	11.2	12.4	15.1	151	277	26
2c 4	2.50	12.0	13.3	16.0	160	326	34
2c 6	3.10	13.3	14.5	17.4	174	399	44
2c 10	4.10	15.6	16.8	19.9	199	549	61
2c 16	5.10	18.1	19.3	22.6	226	727	82
2c 25	6.40	21.2	22.4	26.0	260	1002	108
2c 35	7.80	24.2	25.5	29.2	292	1294	133
3c 1.5	1.50	10.2	11.4	13.9	139	246	16
3c 2.5	2.10	11.8	13.1	15.8	158	316	21
3c 4	2.50	12.8	14.0	16.7	167	380	28
3c 6	3.10	14.3	15.6	18.5	185	480	36
3c 10	4.10	16.6	17.8	20.9	209	666	50
3c 16	5.10	19.2	20.4	23.7	237	896	67
3c 25	6.40	22.6	23.8	27.4	274	1255	89
3c 35	7.80	25.8	27.0	31.0	310	1648	110
3c 50	9.20	29.3	30.5	34.7	347	2201	137
3c 70	10.80	33.4	34.6	39.2	392	2906	169
3c 95	12.80	38.3	39.5	44.5	445	3833	205
3c 120	14.50	42.6	43.8	49.0	490	4684	237
3c 150	16.30	47.3	48.6	54.2	542	5755	272
3c 185	18.00	52.3	53.5	59.5	595	7017	311
3c 240	20.30	58.1	59.3	65.7	657	8839	365
4c 1.5	1.50	11.3	12.6	15.3	153	293	16
4c 2.5	2.10	12.9	14.1	17.1	171	371	21
4c 4	2.50	14.2	15.4	18.3	183	459	28
4c 6	3.10	15.7	16.9	20.0	200	576	36
4c 10	4.10	18.4	19.6	22.9	229	818	50
4c 16	5.10	21.3	22.5	26.1	261	1107	67
4c 25	6.40	25.1	26.3	30.1	301	1563	89
4c 35	7.80	28.7	29.9	34.1	341	2059	110
4c 50	9.20	32.5	33.8	38.1	381	2766	137
4c 70	10.80	37.1	38.3	43.1	431	3666	169
4c 95	12.80	42.6	43.8	49.0	490	4847	205
4c 120	14.50	47.3	48.6	54.2	542	5948	237
4c 150	16.30	52.8	54.1	60.1	601	7333	272
4c 185	18.00	58.3	59.5	66.0	660	8948	311
5c 1.5	1.50	12.4	13.7	16.4	164	335	16
5c 2.5	2.10	14.4	15.7	18.6	186	434	21
5c 4	2.50	15.6	16.8	19.9	199	540	28
5c 6	3.10	17.5	18.7	21.9	219	682	36
5c 10	4.10	20.3	21.5	24.9	249	967	50
5c 16	5.10	23.6	24.8	28.6	286	1326	67
5c 25	6.40	28.0	29.3	33.2	332	1893	89
5c 35	7.80	32.1	33.3	37.7	377	2499	110
5c 50	9.20	36.4	37.6	42.4	424	3380	137
5c 70	10.80	41.7	42.9	48.1	481	4500	169
5c 95	12.80	47.8	49.1	54.7	547	5952	205
5c 120	14.50	53.2	54.4	60.4	604	7303	237
5c 150	16.30	59.3	60.5	67.2	672	9024	272
5c 185	18.00	65.4	66.7	73.7	737	11010	311
5c 240	20.30	72.7	73.9	81.5	815	13921	365
7c 1.5	1.50	13.5	14.8	17.7	177	391	12
10c 1.5	1.50	17.5	18.7	21.8	218	540	11
12c 1.5	1.50	18.2	19.4	22.7	227	607	10
14c 1.5	1.50	19.1	20.3	23.7	237	671	10
16c 1.5	1.50	20.2	21.4	24.8	248	738	9
19c 1.5	1.50	21.5	22.7	26.3	263	845	9
21c 1.5	1.50	22.8	24.0	27.6	276	916	9
24c 1.5	1.50	25.2	26.4	30.2	302	1046	9
27c 1.5	1.50	26.0	27.2	31.1	311	1141	9
33c 1.5	1.50	28.2	29.4	33.6	336	1344	9
37c 1.5	1.50	29.3	30.5	34.7	347	1462	9
7c 2.5	2.10	15.7	17.0	20.1	201	510	21
10c 2.5	2.10	20.1	21.3	24.6	246	698	20
12c 2.5	2.10	21.1	22.4	25.9	259	798	18
14c 2.5	2.10	22.2	23.5	27.0	270	887	18
16c 2.5	2.10	23.5	24.8	28.5	285	988	16
19c 2.5	2.10	25.0	26.3	30.0	300	1126	15
21c 2.5	2.10	26.6	27.8	31.7	317	1233	15
24c 2.5	2.10	29.4	30.6	34.8	348	1407	15
27c 2.5	2.10	30.2	31.5	35.6	356	1529	15
33c 2.5	2.10	32.8	34.1	38.4	384	1808	15
37c 2.5	2.10	34.4	35.6	40.1	401	1998	15

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE OFFSHORE FIRE RESISTANT COLLECTIVE SCREENED BRAIDED/ARMoured INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all offshore applications, where circuit integrity is required under fire conditions and mechanical or EMC protection is also required.

CONSTRUCTION

Conductor: Finely stranded tinned annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX®R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Aluminium/Laminate Tape

Ripcord: High strength ripcord under bedding.

Bedding: LSFLEX®F-10 Low Smoke, Zero Halogen (pressure extruded)

Braid/Armour Options:

Galvanized Steel Wire Braid (90%)

Tinned Copper Wire Braid (90%)

(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX®S-50, Polyolefinic,

Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water.

Resists ozone and UV. SHF-2 also available.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	NEK 606
AS/NZS 1660.5.1	IEC 60092-350	
AS/NZS 1660.5.2	IEC 60092-375	
AS/NZS 1660.5.3	IEC 60331-11	
AS/NZS 1660.5.6	IEC 60331-21	
	IEC 60332-1	
	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, USCG

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	8.5	9.7	12.2	122	175
2p 0.5(quad form)	0.95	9.4	10.7	13.2	132	205
4p 0.5	0.95	14.3	15.6	18.5	185	334
8p 0.5	0.95	18.1	19.3	22.6	226	498
10p 0.5	0.95	19.5	20.7	24.0	240	565
12p 0.5	0.95	21.3	22.5	26.0	260	652
16p 0.5	0.95	23.3	24.5	28.3	283	782
20p 0.5	0.95	24.6	25.8	29.6	296	897
24p 0.5	0.95	26.1	27.4	31.3	313	1020
27p 0.5	0.95	27.6	28.8	32.8	328	1119
36p 0.5	0.95	31.1	32.4	36.7	367	1409

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

FLEXIBLE OFFSHORE FIRE RESISTANT COLLECTIVE SCREENED BRAIDED/ARMoured INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

LOW SMOKE
ZERO HALOGEN
FIBRE
RETARDANT

FK

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	9.4	10.7	13.2	132	201
2p .75 (quad form)	1.20	10.7	12.0	14.7	147	249
4p .75	1.20	16.3	17.5	20.6	206	403
8p .75	1.20	20.9	22.1	25.7	257	622
10p .75	1.20	22.6	23.8	27.3	273	710
12p .75	1.20	24.7	25.9	29.6	296	821
16p .75	1.20	27.0	28.3	32.2	322	991
20p .75	1.20	28.5	29.8	33.9	339	1153
24p .75	1.20	30.4	31.6	35.7	357	1305
27p .75	1.20	32.1	33.3	37.6	376	1444
36p .75	1.20	36.2	37.4	42.2	422	1825
1p 1.0	1.30	10.7	11.9	14.6	146	242
2p 1.0 (quad form)	1.30	12.0	13.2	15.9	159	291
4p 1.0	1.30	18.6	19.9	23.2	232	491
8p 1.0	1.30	23.8	25.1	28.8	288	755
10p 1.0	1.30	26.0	27.2	31.2	312	886
12p 1.0	1.30	28.4	29.6	33.8	338	1024
16p 1.0	1.30	31.4	32.6	37.0	370	1253
20p 1.0	1.30	32.9	34.1	38.5	385	1435
24p 1.0	1.30	35.2	36.5	41.0	410	1655
27p 1.0	1.30	37.0	38.2	43.0	430	1818
36p 1.0	1.30	42.0	43.2	48.4	484	2314
1p 1.5	1.50	11.0	12.2	14.9	149	259
2p 1.5 (quad form)	1.50	12.4	13.6	16.3	163	320
4p 1.5	1.50	19.3	20.5	23.8	238	546
8p 1.5	1.50	24.9	26.1	29.9	299	868
10p 1.5	1.50	26.9	28.2	32.1	321	1013
12p 1.5	1.50	29.5	30.7	34.8	348	1176
16p 1.5	1.50	32.6	33.8	38.2	382	1452
20p 1.5	1.50	34.4	35.6	40.2	402	1703
24p 1.5	1.50	36.6	37.8	42.6	426	1957
27p 1.5	1.50	38.6	39.8	44.8	448	2170
36p 1.5	1.50	43.6	44.8	50.2	502	2759
1p 2.5	2.10	12.3	13.5	16.2	162	311
2p 2.5 (quad form)	2.10	14.2	15.4	18.3	183	406
4p 2.5	2.10	22.3	23.5	27.0	270	700
8p 2.5	2.10	28.9	30.1	34.3	343	1145
10p 2.5	2.10	31.5	32.7	37.1	371	1355
12p 2.5	2.10	34.4	35.7	40.2	402	1576
16p 2.5	2.10	38.1	39.3	44.1	441	1957
20p 2.5	2.10	39.9	41.2	46.2	462	2293
24p 2.5	2.10	42.8	44.0	49.2	492	2662
27p 2.5	2.10	45.1	46.4	51.8	518	2954
36p 2.5	2.10	51.0	52.2	58.0	580	3773

Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t 0.75	1.20	9.9	11.1	13.6	136	217
3t 0.75	1.20	15.3	16.5	19.4	194	395
4t 0.75	1.20	16.7	17.9	21.0	210	468
7t 0.75	1.20	20.2	21.5	24.8	248	670
1t 1.5	1.50	11.5	12.8	15.5	155	285
3t 1.5	1.50	18.2	19.4	22.7	227	551
4t 1.5	1.50	19.9	21.1	24.4	244	654
7t 1.5	1.50	24.4	25.6	29.3	293	981

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FLEXIBLE OFFSHORE FIRE RESISTANT INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ARMoured INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Instrumentation cables suitable for all offshore applications, where circuit integrity is required under fire conditions and mechanical or EMC protection is also required.

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125. Available in plain or tinned.

Flame Barrier: Fire Resistant, Halogen Free, Glass Mica Tape

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Overall Tape: Polyethylene

Drain Wire: Tinned annealed copper

Screen: Individual and Collective Aluminium/Laminate Tape

Ripcord: High strength ripcord under bedding.

Bedding: LSFLEX® F-10 Low Smoke, Zero Halogen (pressure extruded)

Braid/Armour Options:

Galvanized Steel Wire Braid (90%)

Tinned Copper Wire Braid (90%)

(Also available with drain wire under the braid)

Ripcord: High strength ripcord under sheath.

Sheath: LSFLEX® S-50, Polyolefinic,

Flame Retardant, Low Smoke, Zero Halogen (SHF-1 to IEC 60092-359) Splash resistant to oil, skydrol, petrol, acid, sea water.

Resists ozone and UV. SHF-2 also available.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

250 Volts

CORE COLOURS

To customer specification

SHEATH COLOUR

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	NEK 606
AS/NZS 1660.5.1	IEC 60092-350	
AS/NZS 1660.5.2	IEC 60092-375	
AS/NZS 1660.5.3	IEC 60331-11	
AS/NZS 1660.5.6	IEC 60331-21	
	IEC 60332-1	
	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, USCG

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p 0.5	0.95	8.5	9.7	12.2	122	175
2p 0.5	0.95	13.1	14.3	17.3	173	328
4p 0.5	0.95	15.6	16.8	20.0	200	392
8p 0.5	0.95	19.8	21.0	24.4	244	591
10p 0.5	0.95	21.6	22.8	26.4	264	694
12p 0.5	0.95	23.4	24.6	28.3	283	792
16p 0.5	0.95	25.9	27.1	31.0	310	970
20p 0.5	0.95	27.1	28.3	32.2	322	1110
24p 0.5	0.95	29.0	30.2	34.4	344	1280
27p 0.5	0.95	30.4	31.6	35.8	358	1396
36p 0.5	0.95	34.6	35.8	40.3	403	1781

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FLEXIBLE OFFSHORE FIRE RESISTANT INDIVIDUAL & COLLECTIVE SCREENED BRAIDED/ARMOURED INSTRUMENTATION

250V 110°C LSZH Oxygen Index >32, HCL Emission <0.5%

SMOKE
HALOGEN
RETARDANT

FE

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1p .75	1.20	9.4	10.7	13.2	132	201
2p .75	1.20	14.9	16.1	19.0	190	401
4p .75	1.20	17.8	19.0	22.1	221	465
8p .75	1.20	22.6	23.9	27.4	274	720
10p .75	1.20	24.7	25.9	29.7	297	847
12p .75	1.20	26.8	28.0	31.9	319	970
16p .75	1.20	29.6	30.9	35.0	350	1191
20p .75	1.20	31.2	32.5	36.8	368	1391
24p .75	1.20	33.2	34.4	39.0	390	1593
27p .75	1.20	35.1	36.3	40.9	409	1753
36p .75	1.20	39.6	40.8	45.8	458	2223
1p 1.0	1.30	10.7	11.9	14.6	146	242
2p 1.0	1.30	16.6	17.8	21.0	210	493
4p 1.0	1.30	19.6	20.8	24.2	242	554
8p 1.0	1.30	25.8	27.0	31.0	310	898
10p 1.0	1.30	28.1	29.4	33.5	335	1058
12p 1.0	1.30	30.5	31.7	35.9	359	1204
16p 1.0	1.30	33.8	35.0	39.6	396	1497
20p 1.0	1.30	35.6	36.8	41.4	414	1741
24p 1.0	1.30	38.1	39.3	44.1	441	2013
27p 1.0	1.30	40.0	41.3	46.2	462	2216
36p 1.0	1.30	45.4	46.7	52.0	520	2832
1p 1.5	1.50	11.0	12.2	14.9	149	259
2p 1.5	1.50	17.3	18.6	21.7	217	542
4p 1.5	1.50	20.8	22.0	25.5	255	631
8p 1.5	1.50	26.7	27.9	31.8	318	1003
10p 1.5	1.50	29.1	30.3	34.5	345	1188
12p 1.5	1.50	31.8	33.0	37.4	374	1380
16p 1.5	1.50	35.2	36.4	41.0	410	1712
20p 1.5	1.50	36.8	38.1	42.8	428	2001
24p 1.5	1.50	39.4	40.7	45.7	457	2322
27p 1.5	1.50	41.6	42.9	48.1	481	2576
36p 1.5	1.50	47.0	48.3	53.9	539	3286
1p 2.5	2.10	12.3	13.5	16.2	162	311
2p 2.5	2.10	19.6	20.8	24.1	241	685
4p 2.5	2.10	23.6	24.8	28.5	285	788
8p 2.5	2.10	30.9	32.1	36.4	364	1316
10p 2.5	2.10	33.5	34.7	39.2	392	1550
12p 2.5	2.10	36.5	37.8	42.5	425	1804
16p 2.5	2.10	40.5	41.7	46.7	467	2251
20p 2.5	2.10	42.6	43.9	49.0	490	2664
24p 2.5	2.10	45.6	46.9	52.2	522	3098
27p 2.5	2.10	48.2	49.4	55.0	550	3440
36p 2.5	2.10	54.6	55.8	62.1	621	4441

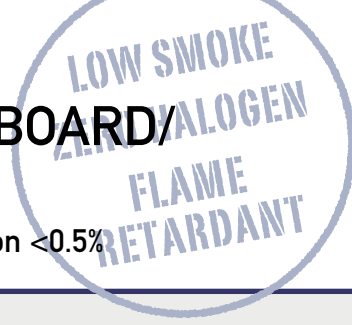
Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX WEIGHT (kg/km)
1t 0.75	1.20	11.2	11.1	13.6	136	217
3t 0.75	1.20	18.9	17.7	20.8	208	445
4t 0.75	1.20	20.9	19.4	22.7	227	538
7t 0.75	1.20	25.2	23.2	26.8	268	774
1t 1.5	1.50	11.7	12.8	15.5	155	285
3t 1.5	1.50	19.9	20.5	23.8	238	605
4t 1.5	1.50	22.0	22.6	26.1	261	738
7t 1.5	1.50	26.7	27.2	31.1	311	1099

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FLEXIBLE OFFSHORE SWITCHBOARD/ PANEL WIRE

0.6/1kV 110°C LSZH Oxygen Index >32, HCL Emission <0.5%



APPLICATION

Flexible Single Insulated Power Cables suitable for all shipboard and marine applications

CONSTRUCTION

Conductor: Finely stranded annealed copper to IEC 60228 Class 5&6 & AS/NZS 1125.

Available in plain or tinned.

Insulation: LSFLEX® R-30, Cross-linked, Polyolefinic, Thermoset, Flame Retardant, Low Smoke, Zero Halogen (HF-90 to IEC 60092-351) Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV. Includes ripcord on 10mm² and larger.

OPERATING TEMP

-40°C to +110°C

VOLTAGE RATING

600/1000 Volts

CORE COLOURS

To customer specification

STANDARDS

AS/NZS 1125	IEC 60228	IEEE 45
AS/NZS 1660.5.1	IEC 60092-350	IEEE 1580
AS/NZS 1660.5.2	IEC 60092-353	
AS/NZS 1660.5.3	IEC 60332-1	
AS/NZS 1660.5.6	IEC 60332-3(A)	
	IEC 60754-1&2	
	IEC 61034-1&2	

APPROVALS

LR, DNV, ABS, BV, USCG

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm ²)	CONDUCTOR DIAMETER (mm)	OVERALL DIAMETER (mm) NOMINAL	MINIMUM BENDING RADIUS (mm)	APPROX. WEIGHT (kg/km)	CURRENT RATING* (Amps)
1c .75	1.20	2.7	11	12	16
1c 1.0	1.30	2.8	11	14	20
1c 1.5	1.50	3.0	12	19	26
1c 2.5	2.10	3.6	14	29	32
1c 4	2.50	4.0	16	43	43
1c 6	3.10	4.7	19	62	52
1c 10	4.10	5.7	23	104	72
1c 16	5.20	6.9	27	155	96
1c 25	6.40	8.5	34	243	127
1c 35	7.80	9.9	40	335	157
1c 50	9.20	11.5	46	477	196
1c 70	10.80	13.3	53	651	242
1c 95	12.80	15.3	61	883	293
1c 120	14.50	17.3	69	1098	339
1c 150	16.30	19.5	78	1375	389
1c 185	18.00	21.7	87	1701	444
1c 240	20.30	24.2	97	2191	522
1c 300	23.00	27.2	109	2712	601
1c 400	26.00	30.7	123	3580	670
1c 500	29.20	34.4	137	4529	720
1c 630	32.80	38.4	154	5698	780

*IEC 60092-352:2005 Table B.4 – Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature. Refer to Technical Information for correction factors, voltage drop, short circuit rating and other conditions. Tricab Cables is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

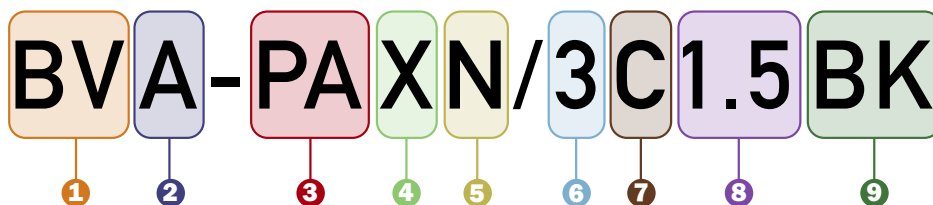
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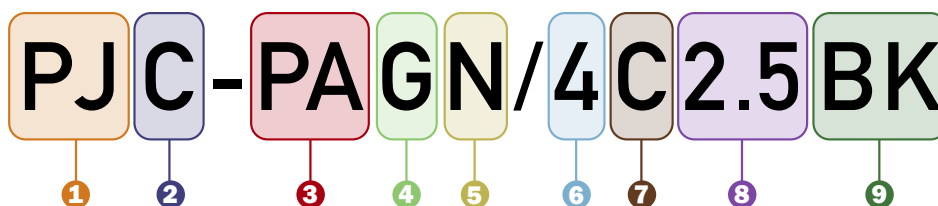


PRODUCT CODING

SHIPBOARD CABLE - PRODUCT CODES



OFFSHORE CABLE - PRODUCT CODES



1. PRODUCT SERIES

eg. (BV series)
(PJ series)

2. SHEATH TYPE (Shipboard/Offshore Cables only)

A = SHF-1
C = SHF-2

3. CORE COLOUR CONFIGURATION

eg. PA = IEC 60092-350

4. BRAID/ARMOUR

P= Plain Copper Wire Braid
T= Tinned Copper Wire Braid
G= Galvanized Steel Wire Braid
L= Tinned Copper Wire Braid + drain wire
M= Galvanized Steel Wire Braid + drain wire
A = Aluminium Braid
R= Aluminium Laminate Tape
X= Not Applicable

5. CONDUCTOR

N= Plain Annealed Copper Wire
D= Tinned Annealed Copper Wire

6. NUMBER OF CONDUCTORS/PAIRS/TRIADS

7. CORE TYPE

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

8. CONDUCTOR CROSS SECTION AREA (mm²)

9. SHEATH COLOUR

OR= Orange
BK= Black
WH= White
GY= Grey
BR= Brown
RE= Red
BL= Blue
GN= Green
EA= Green/Yellow (Earth)

Cable Stripping Recommendation



1. Use Tricab Approved Cable Stripping tool.



2. Check blade depth before stripping jacket.



3. Strip off 4-5" of Jacket.



4. Rotate cable stripper 2-3 times around jacket.



5. Continued.....



6. Bend jacket in all directions to ensure cut.



7. Pull off jacket piece & save piece for next step.



8. Use center of jacket piece to wrap ripcord around jacket piece.



9. Hold primes and pull on jacket piece to strip jacket.



10. Continue pulling to strip off jacket.

INSTALLATION RECOMMENDATION

CORRECTION FACTORS FOR CABLE CURRENT RATING

Bunching of cable

Where more than six cables are bunched together and operating at their maximum capacity, a correction factor of 0.85 should be applied (assuming insufficient free air circulation). Single core cables are exempted from this requirement

Ambient temperature

The maximum current ratings in this catalogue are based on an ambient temperature of 45°C. For other ambient temperatures, the correction factors shown below should be applied.

Maximum conductor temperature	Ambient air temperature						
	°C	35°C	40°C	45°C	50°C	55°C	60°C
90	1.10	1.05	1.00	0.94	0.88	0.82	0.74
110*	1.04	1.00	0.96	0.93	0.89	0.85	0.81

* Shorepower cable only

INSTALLATION

Cable runs should be fixed in straight lines as far as practicable. The minimum bending radius for cable should be selected in accordance with the table below.

Cable Construction	Cable OD	Minimum bending radius (times cable OD)
Unbraided	all sizes	4X
Unbraided, fire resistant	all sizes	8X
Braided	all sizes	6X
Braided, fire resistant	all sizes	10X
Nylon protected	all sizes	15X

The installation of cables across expansion joints in any structure should be avoided. Where this is not feasible, a loop of cable sufficient to accommodate the expansion of the joint should be provided. The internal radius of the loop is to be at least 12 times the overall diameter of the cable.

Cables should be installed away from heat sources as far as practicable. If this cannot be avoided and there is possibility of damage to the cable, then suitable shields, insulation or other protective measures should be installed.

Cables are not to be coated or painted with materials which may adversely affect their sheath or fire performance.

Cables should be installed away from sources of mechanical damage, as far as is practicable. If this cannot be avoided the cables should be protected with suitable metallic casing.

VOLTAGE DROP

When selecting cable size, consideration must be given to voltage drop. Refer to formula and table below:

$$Vd = \frac{L \times I \text{ mV/Am}}{1000}$$

Where: Vd = voltage drop in volts

L = route length of cable in meters

I = current to be carried in amps

mV/Am = millivolts per ampere metre value

(the drop in voltage shall not exceed 5% of supply voltage)

CONDUCTOR SIZE - SHORT CIRCUIT RATING

The short circuit current ratings in this catalogue are based on a one second duration. To calculate the maximum permissible short circuit ratings, the following formula should be applied.

$$\frac{C \times 143}{\sqrt{t}} \text{ (90°C)} \quad \frac{C \times 132}{\sqrt{t}} \text{ (110°C)}$$

C = cross section area of conductor in mm²

t = short circuit time in seconds

Cross Sectional Area (mm ²)	Short Circuit Current (Amps for 1 second)		Voltage Drop at 50Hz (mV/Am)	
	90°C	110°C	90°C	110°C
0.5	-	65	-	-
0.75	-	99	-	-
1	-	132	-	49.7
1.5	215	198	30.0	31.9
2.5	358	330	16.4	17.4
4	572	528	10.2	10.8
6	858	792	6.81	7.23
10	1430	1320	4.05	4.30
16	2288	2112	2.55	2.71
25	3575	3300	1.62	1.72
35	25005	4620	1.17	1.25
50	7150	6600	0.872	0.929
70	10010	9240	0.615	0.657
95	13585	12540	0.457	0.491
120	17150	15840	0.373	0.403
150	21450	19800	0.316	0.344
185	26455	24420	0.269	0.296
240	34320	31680	0.227	0.252
300	42900	39600	0.202	0.227
400	57200	52800	0.183	0.208
500	75100	66000	0.170	0.195
630	90090	83160	0.159	0.184

MAXIMUM INSTALLATION TENSION

To calculate the maximum allowable tension of cables during installation the following formula should be applied:

$$50 \times C \times Nc$$

C = cross section area of conductor in mm²

Nc = total number of cores

Maximum tension must not exceed 20,000N (kg = N/9.81)

* All information above is intended as a guide only

CONDUCTOR DATA

CONDUCTOR - CONSTRUCTION

Tricab uses very fine 0.3mm copper wires to ensure maximum flexibility and ease of use. The following table from IEC 60228 provides a comparative analysis.

size (mm ²)	Tricab	class 2	class 5	class 6
0.5	7 X 0.30	7 X 0.30	16 X 0.20	28 X 0.15
0.75	12 X 0.30	7 X 0.37	24 X 0.20	42 X 0.15
1	14 X 0.30	7 X 0.43	32 X 0.20	56 X 0.15
1.5	21 X 0.30	7 X 0.52	30 X 0.25	84 X 0.15
2.5	35 X 0.30	19 X 0.41	50 X 0.25	140 X 0.15
4	56 X 0.30	19 X 0.52	56 X 0.30	224 X 0.15
6	84 X 0.30	19 X 0.64	84 X 0.30	192 X 0.20
10	144 X 0.30	49 X 0.51	80 X 0.40	320 X 0.20
16	224 X 0.30	49 X 0.65	128 X 0.40	512 X 0.20
25	350 X 0.30	84 X 0.62	200 X 0.40	800 X 0.20
35	490 X 0.30	133 X 0.58	280 X 0.40	1120 X 0.20
50	707 X 0.30	133 X 0.69	400 X 0.40	705 X 0.30
70	980 X 0.30	189 X 0.69	356 X 0.50	999 X 0.30
95	1344 X 0.30	259 X 0.69	485 X 0.50	1340 X 0.30
120	1672 X 0.30	336 X 0.67	614 X 0.50	1699 X 0.30
150	2090 X 0.30	592 X 0.69	765 X 0.50	2123 X 0.40
185	2584 X 0.30	494 X 0.69	994 X 0.50	1470 X 0.40
240	3344 X 0.30	627 X 0.70	1125 X 0.50	1905 X 0.40
300	4144 X 0.30	61 X 2.50	1530 X 0.50	2385 X 0.40
400	5488 X 0.30	61 X 2.89	2035 X 0.50	3200 X 0.40
500	6944 X 0.30	61 X 3.20	1768 X 0.50	4010 X 0.40
630	8736 X 0.30	59 X 3.70	3200 X 0.50	5020 X 0.40

CONDUCTOR - DC RESISTANCE

To calculate the DC Resistance of copper conductors for a given temperature (°C), the resistance at 20°C, as detailed must be multiplied by the appropriate correction factor below.

normal cross-sectional Area (mm ²)	Maximum resistance of conductor at 20°C	
	plain copper Ohm/Km	Tinned Copper Ohm/Km
0.5	39.0	40.1
0.75	26.0	26.7
1	19.5	20.0
1.5	13.3	13.7
2.5	7.98	8.21
4	4.95	5.09
6	3.30	3.39
10	1.91	1.95
16	1.21	1.24
25	0.780	0.795
35	0.554	0.565
50	0.386	0.393
70	0.272	0.277
95	0.206	0.210
120	0.161	0.164
150	0.129	0.132
185	0.106	0.108
240	0.0801	0.0817
300	0.0641	0.0654
400	0.0486	0.0495
500	0.0384	0.0391
630	0.0287	0.0292

AMBIENT Temperature (°C)	Correction Factor
20	1.000
25	1.020
30	1.039
35	1.059
40	1.079
45	1.098
50	1.118
55	1.138
60	1.157
65	1.177
70	1.196
75	1.216
80	1.236
85	1.255
90	1.275

CONVERSION TABLE - CROSS-SECTIONAL AREA AWG/MCM TO MM²

AWG	mm ²
20	0.519
18	0.823
16	1.31
14	2.08
12	3.31
10	5.26
8	8.37
6	13.30
4	21.15
2	33.62
1	42.41
1/0	53.49
2/0	67.43
3/0	85.01
4/0	107.2
MCM	mm ²
250	126.7
300	152.0
350	177.3
400	202.7
450	228.0
500	253.4
550	278.7
600	304.0
650	329.4
700	354.7
750	380.0
800	405.4
850	430.7
900	456.0
950	481.4
1000	506.7
1250	633.4
1500	760.0
1750	886.7
2000	1013.4

SECURING OF CABLES

Cables should be effectively supported and secured using flame retardant clips, saddles or straps. Special care should be taken to avoid any damage caused by excessive tensioning during installation. The distance between fixing points should be selected according to cable type and probability of vibration, but should not exceed 450mm. Where cables are installed below cable trays, ladder or supports, the fixing distance for securing the cable should be in accordance with the table below.

OVERALL DIAMETER OF CABLE EXCEEDING (mm)	NOT EXCEEDING (mm)	NON-ARMoured CABLES (mm)	ARMoured CABLES (mm)
-	8	200	250
6	13	250	300
13	20	300	350
20	30	350	400
30	-	400	450

* All information above is intended as a guide only

CURRENT CARRYING CAPACITIES

Table B.4 - Current carrying capacities in continuous service at maximum rated conductor temperature of 90°C

Nominal cross-sectional area mm ²	Current carrying capacity					
	Single core A		2 core A		3 or 4 core A	
1.5	23		20		16	
2.5	40		26		21	
4	51		34		28	
6	52		44		36	
10	72		61		50	
16	96		82		67	
25	127		108		89	
35	157		133		110	
50	196		167		137	
70	242		208		169	
95	293		249		205	
120	339		288		237	
150	389		331		272	
185	444		377		311	
240	522		444		365	
300	601		511		421	
	d.c.	a.c.	d.c.	a.c.	d.c.	a.c.
400	690	670	587	570	483	469
500	780	720	663	612	546	504
630	890	780	757	663	623	546
Ambient air temperature: 45°C						

FIRE PERFORMANCE TESTING -

(IEC 60332-3, AS/NZS 1660.5.1) (IEC 60331, AS/NZS 1660.5.5)

(IEC 60754-1&2, AS/NZS 1660.5.3) (IEC 60134-1&2, AS/NZS 1660.5.2)

IEC 60332-3, AS/NZS 1660.5.1 - FLAME RETARDANT TEST

This test is conducted by placing cables together on a vertical ladder tray and then exposing them to the flames of a ribbon burner for the appropriate time (Detailed below).

After removal of the flame, the cables are wiped clean and the charring should not have exceeded 2.5 metres.

Category A:

7 litres of combustible material exposed to flame for 40 minutes

Category B:

3.5 litres of combustible material exposed to flame for 40 minutes

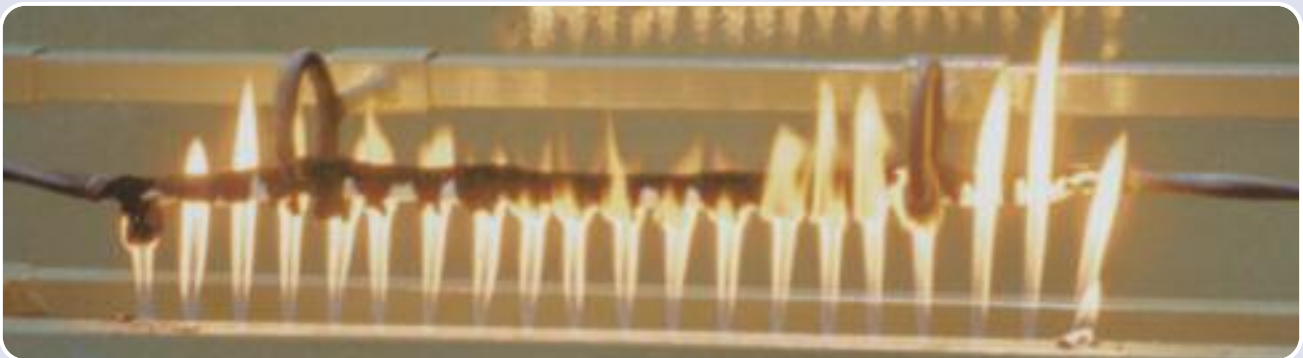
Category C:

1.5 litres of combustible material exposed to flame for 20 minutes



IEC 60331, AS/NZS 1660.5.5 - FIRE TEST

This test is conducted by mounting a 1200mm length of cable over a gas burner and energizing it to its rated voltage. Flames are applied for 90 minutes at a temperature of at least 750°C. After 90 minutes the gas is turned off. After a further 15 minutes the power is disconnected. To pass the requirements of this test, the cable must remain operational both during the 90 minute exposure and the 15 minute cooling period.



IEC 60754-1&2, AS/NZS 1660.5.3 - ACID GAS EMISSION TEST


This test determines the amount of acid gas emitted by burning cables.

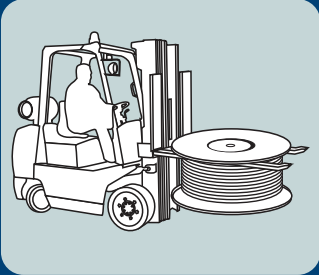
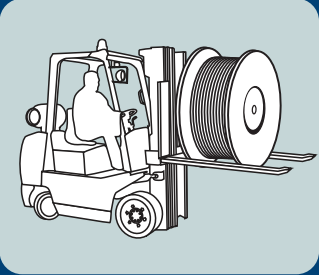
IEC 60134-1&2, AS/NZS 1660.5.2 - SMOKE DENSITY TEST


This test measures the smoke emission from cables during fire.


This test is carried out in a 3m cubed enclosure where a cable sample is subjected to fire. The smoke emission and density are measured by a light beam emitted across the inside of the enclosure to a photocell, measuring the amount of luminous transmission received.


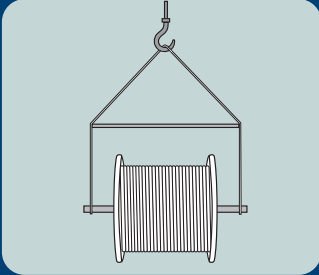
RECOMMENDED CABLE DRUM HANDLING PROCEDURES


 Cradle both reel flanges between forks.




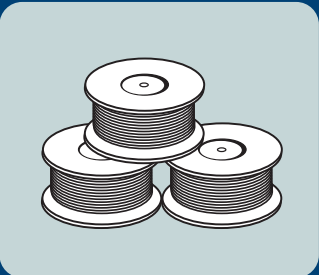
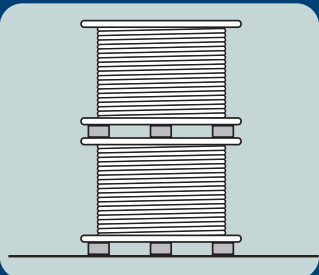
Do not lift by top flange, cable or reel will be damaged 


 Reels can be hoisted with a shaft extended through both flanges.




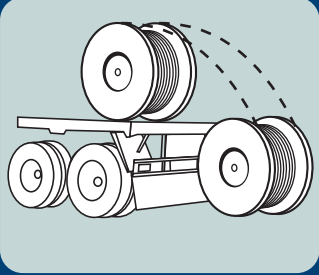
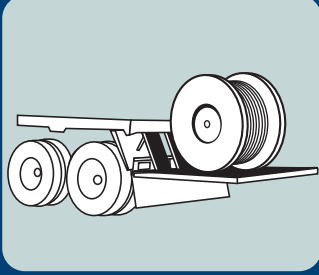
Use a spreader bar to prevent bending the reel flanges and mashing the cable. 


 Place spacers under the bottom flange and between reels to create a space to insert the forks




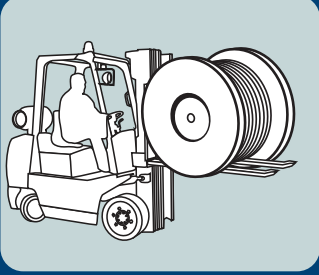
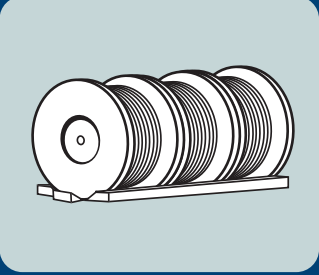
Upended heavy reels will often arrive damaged. Refuse or receive subject to inspection for hidden damage. 


 Lower reels from truck using hydraulic gate, hoist or fork lift, LOWER CAREFULLY.



Never drop reels. 

 Always load with flanges on edge and chock and block securely.



Never allow fork tynes to touch cable surface or reel wrap. 



Tricab IEC Catalog *issue 1.0*

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