

### Halogen Free, Fire Resistant, Flame Retardant, Low Smoke, Optional Mud Resistant

- BU (I)zz
- BU (C)
- BFCU (I) (Hard Grade EPR)
- BFCU (C) (Hard Grade EPR)
- BU (I+C) (Hard Grade EPR)

### Variable Frequency Drive Cable

- RFOU VFD : Halogen Free, Flame Retardant, Low Smoke, VFD Type, Optional Mud Resistant (Hard EPR)

### Applicable Standards of Our Offshore Cables

- IEC 600332-3-22 CAT A : Flame Retardant
- IEC 60754 - 1 & 2 : Halogen Free Properties
- IEC 61034 - 1& 2 : Low Smoke Properties

### Table of Standard Design & Tests

Cable Type	IEC 60093-353	IEC 60092-376	Fire Resistant IEC 60331
RFOU	•		
BFOU	•		•
RU	•		
BU	•		•
RFCU	•		
BFCU	•		•
RFOU (I)		•	
RFOU (C)		•	
BFOU (I)		•	•
BFOU (C)		•	
RU (I)		•	
RU (C)		•	•
BU (I)		•	
BU (C)		•	•
RFCU (I)	•		•
RFCU (C)		•	
BFCU (I)		•	•
BFCU (C)		•	•
RU (I+C)		•	
BU (I+C)		•	•
RFOU VFD	•		

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## MARINE CABLES



Kingfisher Equipment Trading is your trusted energy provider who offers best quality shipboard and offshore cables that range in all sizes. The company continues to prove its excellence in marine electronic solutions by exceeding client's expectations in meeting quality and on- time delivery standards.

Kingfisher cables product range is in compliance with the national and international standards. Subsequently, our cables have type approval certificates from recognized international marine classification bodies that include TL, BV, LR, GL, DNV, ABS, RMRS, RINA and NK. Kingfisher has a universal presence in the energy and telecommunication arena for which our brand of cables had been installed on vessels locally and internationally.

### Shipboard Cables

#### Cable Properties of our Shipboard Cables

- Bending Radius : 6 X Outer Diameter
- Halogen free properties : IEC 60754 - 1 & 2
- Low smoke emission : IEC 61034 - 1 & 2
- Flame Retardancy : IEC 60332 - 3 CAT.A
- Class : 2 or 5



#### Power & Lighting Cables

- HF m : Halogen Free
- HFA m EMC : Halogen Free Armored Cable
- HFA m : Halogen Free Armored Cable
- HFFR m : Halogen Free Fire Resistant
- HFFRA m : Halogen Free Fire Resistant Armored Cable

#### Technical Features of Power & Lightng Cables

- Rated Voltage : 0.6/1kV
- Test Voltage : 3.5kV
- Temperature Range : -40 °C/ +90 °C

#### Application

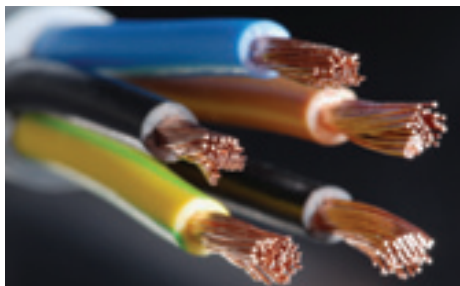
Used in ships and sea vehicles for power and lighting applications. Halogen-free, flame retardant and low smoke density type cables.

## Telecommunication & Control Cable

- HFAT m : Halogen Free Armored
- HFFRAT m : Halogen Free Fire Resistant Armored
- HFAT m (C) : Halogen Free Armored Collectively Screened
- HFAT m (I) : Halogen Free Armored Individually Screened
- HFAT m (I+C) : Halogen Free Armored Individually and Collectively Screened
- HFFRAT m (C) : Halogen Free Fire Resistant Armored Collectively Screened
- HFFRAT m (I) : Halogen Free Fire Resistant Armored Individually Screened
- HFFRAT m (I+C) : Halogen Free Fire Resistant Armored Individually & Collectively Screened

## Technical Features of Telecommunication & Control Cables

- Rated Voltage : 250 kV
- Test Voltage : 1.5 kV
- Temperature Range : -40 °C/ +90 °C



## Application

Used in ships and sea vehicles for telecommunication and signal applications. Halogen-free, flame retardant and low smoke density type cables.

## Table of Standard Design & Tests

Cable Type	IEC 60092-353	IEC 60092-350	IEC 60031-21	IEC 60092-376
HF m	•	•		
HFA m EMC	•	•		
HFA	•	•		
HFFR m	•	•	•	
HFFRA m	•	•	•	
HFAT m		•		•
HFFRAT m		•	•	•
HFAT m (C)		•		•
HFAT m (I)		•		•
HFAT m (I+C)		•		•
HFFRAT m (C)		•	•	•
HFFRAT m (I)		•	•	•
HFFRAT m (I+C)		•	•	•

## Marine & Offshore Cables

### Table of Code Letter for Cable Construction

Code Letter	Construction	Construction Details
R	Insulation	Ethylene propylene rubber (EPR)
F	Inner Covering	Flame retardant & halogen-free compound
O	Armour	Tinned annealed Copper wire braid
U	Outer Sheath	Flame retardant, halogen-free & mud resistant thermoset compound, SHF MUD
B	Insulation	Mica glass tape + EPR
C	Armour	Galvanized steel wire braid
(I)	Individually Screened	Each pair/tripe are screened by copper backed polyester tape in contact with a stranded tinned copper drain wire and wrapped with polyester tape. Printed numbers on insulated conductors identifies Pairs/triples.
(C)	Collectively Screened	Pairs/triples are laid-up and collectively screened by copper backed polyester tape in contact with a stranded tinned copper drain wire. Printed numbers on insulated conductors identifies Pairs/triples.

### Low Voltage Power & Control Cables 0.6/1kV

- RFOU : Halogen Free, Flame Retardant, Low Smoke, Mud Resistant
- BFOU : Halogen Free, Fire Resistant, Flame Retardant, Low Smoke, Mud Resistant
- RU : Halogen Free, Flame Retardant, Low Smoke, optional Mud Resistant
- BU : Halogen Free, Fire Resistant, Flame Retardant, Low Smoke, Optional Mud Resistant
- RFCU : Halogen Free, Flame Retardant, Low Smoke, optional Mud Resistant (Hard Grade EPR)
- BFCU : Halogen Free, Fire Resistant, Flame Retardant, Low Smoke, Optional Mud Resistant (Hard Grade EPR)

### Instrumentation & Communication Cables 250 V

Halogen Free, Flame Retardant, Low Smoke, Mud Resistant	Halogen Free, Flame Retardant, Low Smoke, Optional Mud Resistant
<ul style="list-style-type: none"> <li>• RFOU (I)</li> <li>• RFOU (C)</li> <li>• BFOU (I)</li> <li>• BFOU (C)</li> </ul>	<ul style="list-style-type: none"> <li>• RU (I)</li> <li>• RU (C)</li> <li>• RFCU (I) (Hard Grade EPR)</li> <li>• RFCU (C) (Hard Grade EPR)</li> <li>• RU (I+C) (Hard Grade EPR)</li> </ul>