

MANUFACTURING AND SUPPLY OF ACCESSORIES FOR SUBMARINE CABLES











P.C.S. Italiana S.r.l. was established in January 1991 by a team of highly skilled maritime experts and cable

manufacturing technicians

we are is based in Brandizzo (30 Km East of Torino) with offices and warehouses

Market grow for the O&G driven us also to establish a subsidiary in Doha Qatar that handles all operations for the ME we have also direct connections in:

Egypt

- UAE

- USA



PCS ITALIANA SAL

- Su

PCS Italiana S.r.l. since 1991 is operating in the O&G business with equipment and technicians for the laying and installation of power and optical fibres submarine cables.

From the early years of activity the Company started operation with international cablemakers and the experience list has extended to several of the major O&G Companies/Contractors and Utilities both in Italy and abroad.

Company activity is driven to provide services for submarine cables and umbilical laying and installation covering the service from engineering stages until final test and commissioning; within this range of application also the accessories supply is concerned and for this reason, thanks to the experience developed working on submarine cables Company started to design and propose a comprehensive range of accessories from topside platform junction boxes until repair joints, covering all the accessories and ancillaries within.

The track reference for supplied accessories shows a consistent experience, capability and reliability thanks to the fact that all PCS Italiana accessories are tailored designed and manufactured according to direct cable and site needs thus provide a specific solution for the purpose of installation.

All manufacturing and assembly activities are held in the headquarter in order to provide a safe and comprehensive location for all specific operations.

Company staff is composed of approx. 25 people that considers both employees and operational staff.

Thanks to the light structure capacity and relevant direct control on all activities, PCS Italiana can take direct and immediate actions in order to provide immediate and supportive responses to Customer needs.

PCS ITALIANA SRL

Company location is in Brandizzo in North West Italy very close to Torino, with close access to Milano Malpensa Airport and closer seaport is Genoa situated approx. 200 Km South-West of Brandizzo.

Company has a complete owned headquarter and manufacturing-assembling unit of 2500 m² among which the covered surface is of 2000 m². An additional area is available at 20 Km east with an open air surface of 9000 m² for storage of equipment and means.

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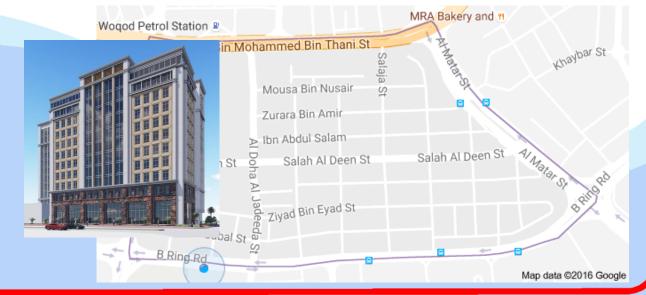




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SNA-SOA





OUR ACTIVITIES

MANUFACTURING OF SUBMARINE ACCESSORIES

Topside hang-off



Safety on seabed



Bull-noses and pulling head







PCS design and manufacture a complete range of accessories and ancillaries for submarine cables to deliver the relevant support to end users and contractors

ATEX Certified
Junction boxes
for power and fibre
optic



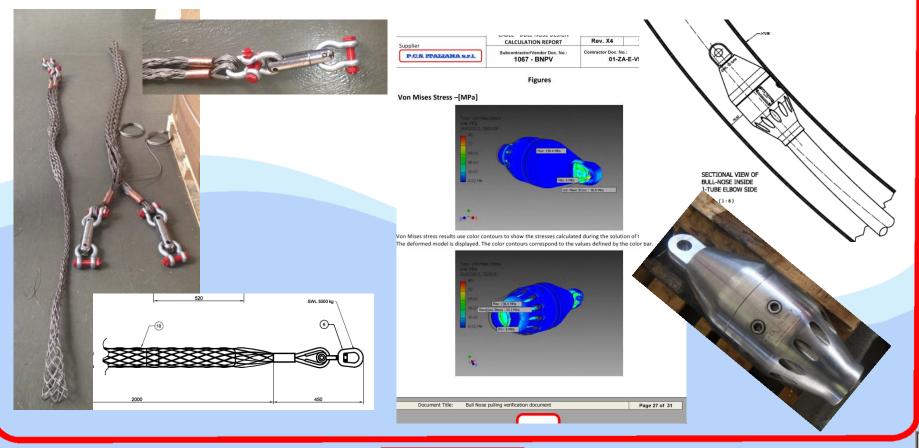
Submarine joints for power and OF cables





CABLES BULL-NOSES AND PULLING HEADS

Cable bull-noses and pulling heads are designed and manufactured in reason of mechanical performances to be granted and cables dimensions.



JUNCTION BOXES FOR POWER AND OPTICAL CABLES

A wide range of junction boxes is available for power, control and optical cables with "Ex" Certification under IECEx or Atex Standard with protection grade up to IP 68.

As alternative, also sealed JB without certification are available.

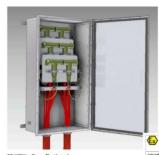








up to 15 kV - 620 A **ATEX CERTIFIED**



Available in different sizes to satisfy a





FOC JUNCTION BOX



Available in different sizes to satisfy





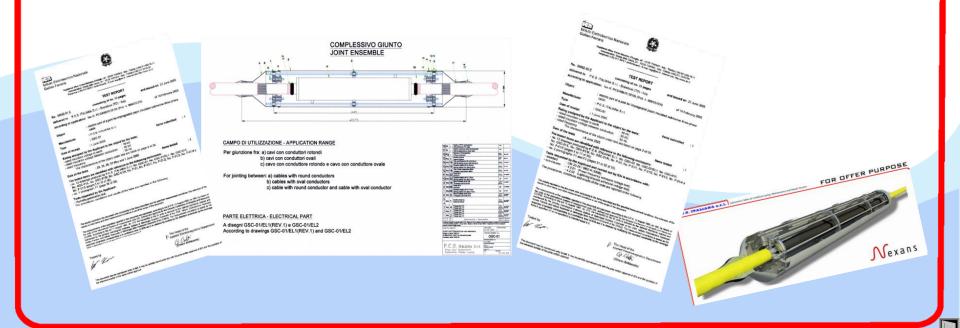
Sealed vertical and horizontal junction boxes

SUBMARINE JOINTS FOR MEDIUM VOLTAGE POWER CABLES

A universal range of power submarine joints allow PCS to provide a unique solution that covers different ranges of insulation, voltages and size.

Joint is developed in cooperation with Nexans for the electrical part to provide to customers a reliable supplier for electrical joints.

The joint have been tested to an independent laboratory to verify the compatibility for application at 150 m depth with satisfactory results.

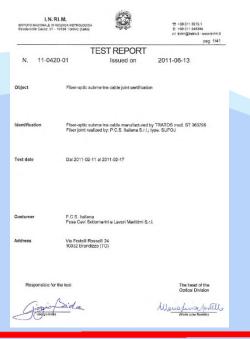




SUBMARINE JOINTS FOR OPTICAL FIBRE CABLES

With the same universal philosophy also the fibre optic submarine joint has a universal design and allows with the same design, the connection up to 96 fibres thus including the largest industry solutions.

This joint has been designed by PCS and tested in cooperation with Tratos Cavi to an independent laboratory in order to confirm its design compatibility for application until 2000 m depth.





PCS ITALIANA SRL Submarine Cables & Umbilical Laying, Testing, Maintenance, Accessories and Repair Service

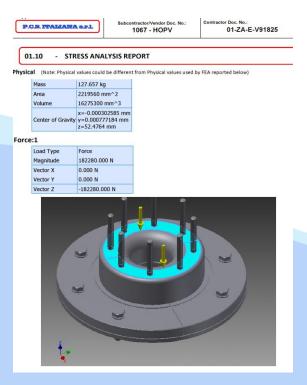
MANUFACTURING OF SUBMARINE ACCESSORIES

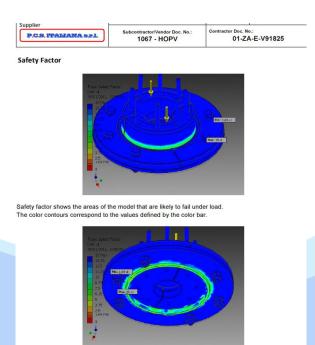
TOPSIDE HANG-OFF

To provide a safe solution for cables hang-off on platform, PCS provide specific studies and design purposely the hang-off for topside application. These ancillaries provide the Customer required pulling strength by use of proven quality material and supported by specific fatigue stress calculation.





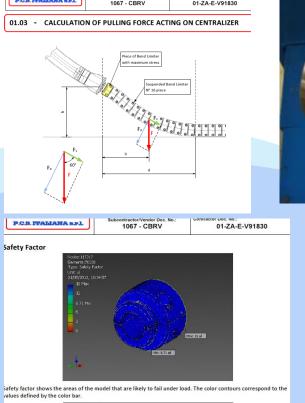






J-TUBE SEALS, CENTRALIZERS AND BEND RESTRICTORS

From topside to bell-mouth, PCS can provide all ancillaries. J-tube seals or centralizers that can be also completed by suitable bend restrictors elements for an increased safety for cables at j-tube exit.







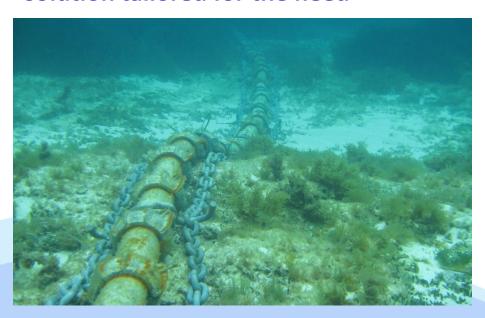




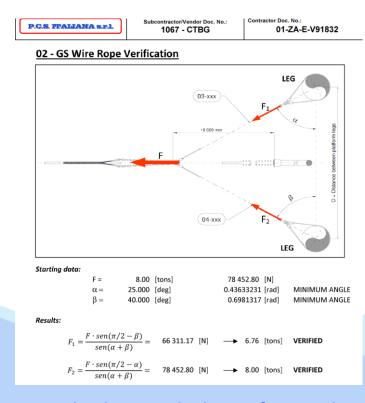


SAFETY ON SEABED

At j-tube exit, additional safety may be required and PCS can provide specific solution tailored for the need



Iron cast shell protection for preserved marine environment



Tie-back grip calculation for supply and application at j-tube exit



- Accessories drawings
- Material Inspection Test Plan
- Assembly instructions
- Material certificates
- Type Tests on previous samples
- Shipment documents
- Certificate of Origin







LATEST ACCESSORIES SUPPLY REFERENCES

YEAR	CUSTOMER	SITE	ACCESSORIES TYPE
2010 -2012	ENEL Distribuzione	Italy	Supply of no. 14 MV power submarine joints developed with Nexans for the two years maintenance contract
2013	Fulgor Cables	Egypt	Supply of MV accessories for Suco for Ras Budran project: no. 2 hang-off, no. 1 centralizer, no. 2 universal submarine joints, no. 2 pulling heads
2013	7TT Cables (China)	Aramco Mrjn-	Supply of no. 30 cable pulling head and no. 40 chinese fingers for the MV cables supplied by ZTT to McDermott for the
2015	ZTT Cables (China)	Safanya - Abu Safah	Aramco Offshore Long term Agreement
2013	Occidental petroleum of Qatar	Qatar	Supply of no. 2 universal submarine joints to repair PS-1K to R06 connection (JPS cable)
2013	ZTT Cables (China)	Aramco Wasit	Supply of: no. 6 Atex power JB, no. 6 Atex OF JB, no. 7 hang-off, no. 5 centralizer + 5 m bend restrictors, no. 6 bull-nose, no.
		Project	2 universal spare joints, no. 5 tie-back systems, no. 1 cable abandon head
2013-2014	NPCC - Abu Dhabi	ADMA OPCO -	Supply of no. 132 J-Tube seals C/W 5 mts. bend restrictor each (Prysmian Cable)
2015-2014	NPCC - Abu Dilabi	ZAKUM Oil Lines	Supply of no. 152 3-1 abe seats C/ w 3 miss bend restrictor each (Prysiman Cable)
2015	STAPEM - Paris	SONANGOL - Palanca Field	Supply of no. 2 submarine MV composite joints for submarine cable (Prysmian cable)
2015	NPCC - Abu Dhabi	BUNDUQ	County of an 2 L Table cools CAV Faste hand applicate a coh (IDC Cohla)
		OSII Ph. 2 Devel. Pjt	Supply of no. 2 J-Tube seals C/W 5 mts. bend restrictor each (JPS Cable)
2016	Orient Cables (China)	I South Pars 19 I	Supply of : no. 4 15 kV Atex power JB, no. 4 Atex OF JB, no. 4 Atex Control JB, no. 4 J-Tube seal + 5 m bend restrictors, no. 4
			hang-off, no. 4 universal MV composite spare joints
2017	J-Power System Saudi	NPCC for ADMA OPCO	Supply of 1 J-Tube seal +5 m bend restrictors
2017	J-Power System Saudi	Mc Dermott for	Supply of no. 15 OF Splice Boxes NEMA 4x Splice Boxes for Safanya Header 9 and Berri
		Saudi Aramco	
2017	J-Power System Saudi	Mc Dermott for	Supply of no. 13 OF IEC-Ex IP67 Splice Boxes for Safanya 5 Field
		Saudi Aramco	
2017	J-Power System Saudi	EMAS	Supply of no. 8 OF NEMA 4x Splice Boxes and no. 8 diverless centralizers for Safanya 5 Field
	-	NPCC for Saudi	
2017	J-Power System Saudi	Aramco	Supply of no. 6 OF NEMA 4x Splice Boxes for Safanya/ZULF/Berri Fields
2018	Sumitomo Electric Co.	COOEC for Qatar	Supply of no. 2 IECEx IP66 Power JB, no. 2 IECEx FO JB, No. 2 hang-off, no. 2 centralizers with 5 m bend restrictiros each,
		Petroleum	no. 1 composite submarine joint or QP NFA Project
		Dubai Petroleum	
2018	J-Power System Saudi	Rashid A -D	Supply of no. 2 IECEx IP67 Power JB, no. 2 IECEx IP67 FO JB, no. 2 centralizers each with 5 m bend restrictors
2018	ENI Libia	Mellitah Field	Supply of no. 2 Submarine Joint Boxes for Power and Comms Tronic Flyng Leads
2018	J-Power System Saudi	NPCC	Supply of no. 10 IECEx IP66 Power JB, no. 10 IECEx FO JB, No. 10 diverless centralizers with 5 m bend restrictiros each, no.
2016	J-rower system saudi	ONGC India	10 composite submarine joint
2018	J-Power System Saudi	NPCC	Supply of no. 20 NEMA 4x FO JB, No. 4 diverless centralizers with 5 m bend restrictiros, no. 4 tie-back systems
2018	J-rower system saudi	Aramco 115 kV	Supply of the 20 NEIVIN 4A FO 3B, NO. 4 diversess Centralizers with 5 in Dend restrictions, no. 4 de-back systems
		QatarGas WH5	
2018	PCS Cables LLC	Replacement	Supply of no. 2 IECEx IP67 Assemblable JB for power and fibre optic cable
		Qatar	
2018	J-Power System Saudi	L&T ONGC India	Supply of no. 2 IECEx IP66 FO JB, No. 4 diverless centralizers with 5 m bend restrictiros, no. 2 composite submarine joints
2018	AVEON Offshore	Amni Tubu Nigeria	Supply of no. 2 Centralizers with 5 m Bend restrictors
		NPCC	
2018	J-Power System Saudi	NPCC Saudi Aramco	Supply of no. 19 IECEx FO JB
under		NPCC	
under	J-Power System Saudi	Bu Haseer - UAE	Supply of no. 2 J-Tube seals with 5 m Bend restrictors
execution under	United Technical	ADMA-OPCO	
			Supply of no. 2 J-Tube seals with 5 m Bend restrictors
execution	Services - UAE	UAE	



THANKS FOR YOUR ATTENTION

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