

## BFOU(I) M 150/250(300)V S3/S7/S103

Fire resistant halogenfree instrumentations cable. MUD resistant



### GENERAL INFO

BFOU(I) M 150/250(300)V S3/S7/S103

Armoured Fire resistant, flame retardant halogenfree instrumentations cable. Mud resistant. Fixed installation for instrumentation, communication, control and alarm systems in both EX (Zone 0, 1 & 2)- and safe areas, emergency and critical systems where requirement for fire resistance exists. BFOU(i) M 250V for installation in areas exposed to MUD and drilling/cleaning fluids. Meets the Oil & Mud resistance requirement in NEK TS 606:2022.

SHF2 outer sheath to IEC 60092-360 is a flame retardant halogen-free thermoset EVA rubber.

MGT/EPR/EPR/TCWB/SHF2

Offshore;Oil & Gas

### CABLE DESIGN

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	Mica + polymer
Drain wire	Yes
Screen over stranding element	Foil
Armouring/reinforcement	Braiding
Armouring	Yes
Armouring/reinforcement material	Copper, tinned
Material inner sheath	Halogenfree polymer
Material outer sheath	EVA rubber
Cable shape	Round

### MARKING TEXT (EXAMPLE)

"meter" "year/week" DRAKA 01 Part no. BFOU(I) M 250V S3/S7/S103 16 PAIR 0,75 mm<sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-1\*) or IEC 60331-2\*) IEC 60331-21\*\*) IEC 60332-3-22 Production no.

\*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm \*\*) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes

Color coded cores twisted together. Pairs/Triples/Quads are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple/quad is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples/quads. Pairs/triples/quads are identified by numbered tape or by numbers printed directly on the insulated conductors.

Core colours:

Pair: Black - Light Blue

Triple: Black - Light Blue - Brown

Quad: Black - Light Blue - Brown - Grey

Pair/Triple/Quad are identified by numbered tape or by numbers printed directly on the insulated cores

[www.draka.no/](http://www.draka.no/)

<https://no.prysmian.com>

Product development and/or changes in standards

## STANDARDS APPLIED



<b>NEK TS 606:2022</b>	Cables for offshore installations
<b>IEC 60092-376</b>	Design standard
<b>IEC 60228 Class 2 or class 5</b>	Conductors
<b>IEC 60092-360</b>	Insulation and sheath
<b>IEC 60092-350</b>	General construction and test methods for power, control and instrumentation cables for shipboard and offshore applications
<b>IEC 60331-1/2 and IEC 60331-21</b>	Fire resistant properties: IEC 60331-1 & -2 (120 minutes @ 830°C), IEC 60331-21 (180 minutes @ 1000°C)
<b>IEC 60332-1-2 and IEC 60332-3-22(Cat.A)</b>	Flame retardant properties
<b>IEC 60754-1 and IEC 60754-2</b>	Halogen free properties: IEC 60754-1 (pH ≥ 4,3, Conductivity ≤ 10μS), IEC 60754-2 ( < 0,5% Halogen)
<b>IEC 61034-1, -2</b>	Low smoke properties: IEC 61034-1, -2 (minimum 60% light transmittance)
<b>Oil resistant IEC 60092-360</b>	IRM 902 oil (168 hours @ 100°C)
<b>MUD resistant (IEC 60092-360 &amp; NEK TS 606)</b>	IRM 903 oil (168 hours @ 100°C), Calcium Bromide Brine (56 days @ 70°C), EDC 95-11 base oil (56 days @ 70°C)
<b>ISO 4892 part 3</b>	UV and Ozone resistance

## APPLICATION PROPERTIES

Nominal voltage U <sub>0</sub> [V]	150
Nominal voltage U [V]	250
Test voltage [kV]	3.5
Max. conductor temperature [°C]	90
Min. outer temperature, fixed installation [°C]	-52
Max. outer temperature, fixed installation [°C]	75
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	50
Bending radius (rule)	8 x OD (cable overall diameter) during installation 6 x OD (cable overall diameter) fixed installed
Certified for shipboard application	Yes

## PRODUCT RANGE

SAP code	Basic construction	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20110624	1P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1043819	7021528932010	85444921
20110623	1P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1043820	7021528932003	85444921
20222969	1P 1.5mm <sup>2</sup> CI5	Grey	Class 5 = flexible	20222969	7021528634006	85444921
20110639	1P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1043859	7021528934014	85444921
20110638	1P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1043860	7021528934007	85444921
20110867	1P 2.5mm <sup>2</sup>	Blue	Class 2 = stranded	20110867	7021528936018	85444921
20110650	1P 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044140	7021528936001	85444921
20110635	1T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1043919	7021528932614	85444921
20110634	1T 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1043920	7021528932607	85444921
20110648	1T 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044169	7021528934618	85444921
20110647	1T 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044170	7021528934601	85444921
20110869	1T 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20110869	7021528936605	85444921
20311221	1Q 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	20311221	7021528932041	85444921
20110625	1Q 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	20110625	7021528932034	85444921
20104969	2P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044019	7021528932072	85444921
20110626	2P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044020	7021528932065	85444921
20111213	2P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044061	7021528934076	85444921
20110640	2P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044060	7021528934069	85444921
20292819	2T 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	20292819	7021528934670	85444922
20203978	2P 2.5mm <sup>2</sup>	Blue	Class 2 = stranded	20203978	7021528936070	85444921
20142038	2P 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20142038	7021528936063	85444921
20110864	2T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044122	7021528932676	85444922
20110636	2T 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044121	7021528932669	85444922
20110866	2T 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044171	7021528934663	85444922
20195593	2T 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20195593	7021528936667	85444922
20110628	4P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044022	7021528932195	85444922
20110627	4P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044021	7021528932188	85444922
20110642	4P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044064	7021528934199	85444922
20110641	4P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044063	7021528934182	85444922
20110868	4P 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20110868	7021528936186	85444922
20384535	5P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	20384535	7021528932218	85444922
20293408	5P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	20293408	7021528934205	85444922
20110865	4T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044124	7021528932799	85444922
20111212	4T 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044123	7021528932782	85444922
20372943	6P 0,75mm <sup>2</sup>	Blue	Class 2 = stranded	20372943	7021528932232	85444922

## PRODUCT RANGE

SAP code	Basic construction	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20372941	6P 0,75mm <sup>2</sup>	Grey	Class 2 = stranded	20372941	7021528932225	85444922
20117428	4T 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044174	7021528934793	85444922
20109501	4T 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044173	7021528934786	85444922
20165927	6P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	20165927	7021528934229	85444922
20195594	4T 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20195594	7021528936780	85444922
20372942	6P 2,5mm <sup>2</sup>	Grey	Class 2 = stranded	20372942	7021528936223	85444922
20110773	8P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044029	7021528932317	85444922
20109496	8P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044028	7021528932300	85444922
20110644	8P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044069	7021528934311	85444922
20110643	8P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044068	7021528934304	85444922
20195592	8P 2.5mm <sup>2</sup>	Blue	Class 2 = stranded	20195592	7021528936315	85444922
20161616	8P 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20161616	7021528936308	85444922
20372945	6T 0,75mm <sup>2</sup>	Blue	Class 2 = stranded	20372945	7021528932836	85444922
20372944	6T 0,75mm <sup>2</sup>	Grey	Class 2 = stranded	20372944	7021528932829	85444922
20372946	6T 1,5mm <sup>2</sup>	Blue	Class 2 = stranded	20372946	7021528934830	85444922
20372947	6T 1,5mm <sup>2</sup>	Grey	Class 2 = stranded	20372947	7021528934823	85444922
20440418	10P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	20440418	7021528932348	85444922
20112240	8T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044129	7021528932911	85444922
20110637	8T 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044128	7021528932904	85444922
20110630	12P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044031	7021528932379	85444922
20110629	12P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044030	7021528932362	85444922
20117424	8T 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044178	7021528934915	85444922
20110649	8T 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044177	7021528934908	85444922
20110646	12P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044071	7021528934373	85444922
20110645	12P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044070	7021528934366	85444922
20152769	8T 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20152769	7021528936902	85444922
20139737	12P 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20139737	7021528936360	85444922
20110632	16P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044034	7021528932430	85444922
20110631	16P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044033	7021528932423	85444922
20109498	16P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044074	7021528934434	85444922
20109497	16P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044073	7021528934427	85444922
20109504	16P 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20109504	7021528936421	85444922
20170930	12T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044131	7021528932973	85444922
20110878	12T 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044130	7021528932966	85444922
20170933	12T 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044180	7021528934977	85444922

## PRODUCT RANGE

SAP code	Basic construction	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20109502	12T 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044179	7021528934960	85444922
20170932	16T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	20170932	7021528933031	85444922
20110774	16T 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044132	7021528933024	85444922
20166157	24P 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	1044037	7021528932492	85444922
20110633	24P 0.75mm <sup>2</sup>	Grey	Class 2 = stranded	1044036	7021528932485	85444922
20210037	24T 0.75mm <sup>2</sup>	Blue	Class 2 = stranded	20210037	7021528933093	85444922
20170929	16T 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	1044182	7021528935035	85444922
20109503	16T 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044181	7021528935028	85444922
20109499	24P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	1044076	7021528934489	85444922
20109500	24P 1.5mm <sup>2</sup>	Blue	Class 2 = stranded	20109500	7021528934496	85444922
20195595	16T 2.5mm <sup>2</sup>	Grey	Class 2 = stranded	20195595	7021528937022	85444922
20272644	32P 1.5mm <sup>2</sup>	Grey	Class 2 = stranded	20272644	7021528934540	85444922
20131938	24T 0,75mm <sup>2</sup>	Grey	Class 2 = stranded	1044138	7021528933086	85444922
20210039	24T 1,5mm <sup>2</sup>	Blue	Class 2 = stranded	20210039	7021528935097	85444922
20210038	24T 1,5mm <sup>2</sup>	Grey	Class 2 = stranded	20210038	7021528935080	85444922

## DIMENSIONAL DATA PART 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20110624	1P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	8	0.5
20110623	1P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	8	0.5
20222969	1P 1.5mm <sup>2</sup> CI5	1.55	0.7	3.6	1.1	9.5	0.5
20110639	1P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	9.5	0.5
20110638	1P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	9.5	0.5
20110867	1P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	9.5	0.5
20110650	1P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	9.5	0.5
20110635	1T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	8.5	0.5
20110634	1T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	8.5	0.5
20110648	1T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	10	0.8
20110647	1T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	10	0.8
20110869	1T 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	10	0.8
20311221	1Q 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	9	0.5
20110625	1Q 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	9	0.5
20104969	2P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	11.5	0.8
20110626	2P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	11.5	0.8
20111213	2P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	14	0.8
20110640	2P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	14	0.8
20292819	2T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	15	0.8
20203978	2P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	14	0.8
20142038	2P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	14	0.8
20110864	2T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	13	0.8
20110636	2T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	13	0.8
20110866	2T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	15	0.8
20195593	2T 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	15.5	0.8
20110628	4P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	12.5	0.8
20110627	4P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	12.5	0.8
20110642	4P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	15	0.8
20110641	4P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	15	0.8
20110868	4P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	16.5	0.8

## DIMENSIONAL DATA PART 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20384535	5P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	13.5	0.8
20293408	5P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	16.5	0.8
20110865	4T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	14	0.8
20111212	4T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	14	0.8
20372943	6P 0,75mm <sup>2</sup>	1.1	0.6	2.6	1.1	15	0.8
20372941	6P 0,75mm <sup>2</sup>	1.1	0.6	2.6	1.1	15	0.8
20117428	4T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	16.5	0.8
20109501	4T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	16.5	0.8
20165927	6P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	18.5	0.8
20195594	4T 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	18.5	0.8
20372942	6P 2,5mm <sup>2</sup>	1.9	0.7	3.6	1.1	20	1
20110773	8P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	17	0.8
20109496	8P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	17	0.8
20110644	8P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	20.5	1
20110643	8P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	20.5	1
20195592	8P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	22.5	1
20161616	8P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.1	22.5	1
20372945	6T 0,75mm <sup>2</sup>	1.1	0.6	2.6	1.1	16.5	0.8
20372944	6T 0,75mm <sup>2</sup>	1.1	0.6	2.6	1.1	16.5	0.8
20372946	6T 1,5mm <sup>2</sup>	1.55	0.7	3.2	1.1	20	1
20372947	6T 1,5mm <sup>2</sup>	1.55	0.7	3.2	1.1	20	1
20440418	10P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	19	0.8
20112240	8T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	18.5	0.8
20110637	8T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	18.5	0.8
20110630	12P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	19.5	0.8
20110629	12P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	19.5	0.8
20117424	8T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	22.5	1
20110649	8T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	22.5	1
20110646	12P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	24.5	1
20110645	12P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	24.5	1

## DIMENSIONAL DATA PART 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20152769	8T 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.3	25	1
20139737	12P 2.5mm <sup>2</sup>	1.9	0.7	3.6	1.5	27.5	1
20110632	16P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	23	1
20110631	16P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	23	1
20109498	16P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.5	28	1
20109497	16P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.5	28	1
20109504	16P 2.5mm <sup>2</sup>	1.9	0.9	4	1.5	35	1.5
20170930	12T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	22	1
20110878	12T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.1	22	1
20170933	12T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	27	1
20109502	12T 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.1	27	1
20170932	16T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	25.5	1
20110774	16T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	25.5	1
20166157	24P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	27.5	1
20110633	24P 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	27.5	1
20210037	24T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	31	1.5
20170929	16T 1.5mm <sup>2</sup>	1.55	0.9	3.2	1.5	34	1.5
20109503	16T 1.5mm <sup>2</sup>	1.55	0.9	3.6	1.5	34	1.5
20109499	24P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.5	34.5	1.5
20109500	24P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.5	34.5	1.5
20195595	16T 2.5mm <sup>2</sup>	1.9	0.9	4	1.5	38	1.5
20272644	32P 1.5mm <sup>2</sup>	1.55	0.7	3.2	1.5	38	1.5
20131938	24T 0.75mm <sup>2</sup>	1.1	0.6	2.6	1.5	31	1.5
20210039	24T 1.5mm <sup>2</sup>	1.55	0.9	3.6	1.5	42	2
20210038	24T 1.5mm <sup>2</sup>	1.55	0.9	3.6	1.5	42	2

Conductor diameter tolerances for our Class 2 conductors are within the Lower and Upper Limits listed in IEC 60092-350 Annex D and Table D.1



## DIMENSIONAL DATA CONTINUES

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm <sup>2</sup> ]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20110624	1P 0.75mm <sup>2</sup>	0.2	4.5	1.1	11	0.8	235	60
20110623	1P 0.75mm <sup>2</sup>	0.2	4.5	1.1	11	0.8	235	60
20222969	1P 1.5mm <sup>2</sup> CI5	0.2	4.5	1.2	12.5	0.8	275	82
20110639	1P 1.5mm <sup>2</sup>	0.2	4.5	1.2	12.5	0.8	285	76
20110638	1P 1.5mm <sup>2</sup>	0.2	4.5	1.2	12.5	0.8	285	76
20110867	1P 2.5mm <sup>2</sup>	0.2	5.3	1.2	12.5	0.8	300	99
20110650	1P 2.5mm <sup>2</sup>	0.2	5.3	1.2	12.5	0.8	300	99
20110635	1T 0.75mm <sup>2</sup>	0.2	4.5	1.1	11.5	0.8	260	67
20110634	1T 0.75mm <sup>2</sup>	0.2	4.5	1.1	11.5	0.8	260	67
20110648	1T 1.5mm <sup>2</sup>	0.2	5.3	1.2	13	0.8	320	96
20110647	1T 1.5mm <sup>2</sup>	0.2	5.3	1.2	13	0.8	320	96
20110869	1T 2.5mm <sup>2</sup>	0.2	6	1.2	13	0.8	340	128
20311221	1Q 0.75mm <sup>2</sup>	0.2	4.5	1.2	12.5	0.8	290	73
20110625	1Q 0.75mm <sup>2</sup>	0.2	4.5	1.2	12.5	0.8	290	73
20104969	2P 0.75mm <sup>2</sup>	0.3	10.2	1.3	15	0.8	410	132
20110626	2P 0.75mm <sup>2</sup>	0.3	10.2	1.3	15	0.8	410	132
20111213	2P 1.5mm <sup>2</sup>	0.3	11.9	1.4	17.5	0.8	530	178
20110640	2P 1.5mm <sup>2</sup>	0.3	11.9	1.4	17.5	0.8	530	178
20292819	2T 1.5mm <sup>2</sup>	0.3	11.9	1.5	19	0.8	615	206
20203978	2P 2.5mm <sup>2</sup>	0.3	11.9	1.5	18	0.8	545	213
20142038	2P 2.5mm <sup>2</sup>	0.3	11.9	1.5	18	0.8	545	213
20110864	2T 0.75mm <sup>2</sup>	0.3	10.2	1.4	16.5	0.8	470	143
20110636	2T 0.75mm <sup>2</sup>	0.3	10.2	1.4	16.5	0.8	470	143
20110866	2T 1.5mm <sup>2</sup>	0.3	11.9	1.5	19	0.8	615	206
20195593	2T 2.5mm <sup>2</sup>	0.3	13.6	1.5	19.5	0.8	650	270
20110628	4P 0.75mm <sup>2</sup>	0.3	11.9	1.4	16	0.8	490	181
20110627	4P 0.75mm <sup>2</sup>	0.3	11.9	1.4	16	0.8	490	181
20110642	4P 1.5mm <sup>2</sup>	0.3	13.6	1.5	19	0.8	655	256
20110641	4P 1.5mm <sup>2</sup>	0.3	13.6	1.5	19	0.8	655	256
20110868	4P 2.5mm <sup>2</sup>	0.3	15.3	1.6	20.5	1	790	342

## DIMENSIONAL DATA CONTINUES

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm <sup>2</sup> ]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20384535	5P 0.75mm <sup>2</sup>	0.3	11.9	1.4	17.5	0.8	560	196
20293408	5P 1.5mm <sup>2</sup>	0.3	15.3	1.6	20.5	1	775	304
20110865	4T 0.75mm <sup>2</sup>	0.3	11.9	1.4	17.5	0.8	570	205
20111212	4T 0.75mm <sup>2</sup>	0.3	11.9	1.4	17.5	0.8	570	205
20372943	6P 0,75mm <sup>2</sup>	0.3	13.6	1.5	19	0.8	650	231
20372941	6P 0,75mm <sup>2</sup>	0.3	13.6	1.5	19	0.8	650	231
20117428	4T 1.5mm <sup>2</sup>	0.3	15.3	1.6	20.5	1	800	326
20109501	4T 1.5mm <sup>2</sup>	0.3	15.3	1.6	20.5	0.8	800	326
20165927	6P 1.5mm <sup>2</sup>	0.3	15.3	1.6	22.5	1	880	336
20195594	4T 2.5mm <sup>2</sup>	0.3	15.3	1.6	22.5	1	955	430
20372942	6P 2,5mm <sup>2</sup>	0.3	17.8	1.7	24	1	1,080	465
20110773	8P 0.75mm <sup>2</sup>	0.3	15.3	1.6	21	1	780	278
20109496	8P 0.75mm <sup>2</sup>	0.3	15.3	1.6	21	1	780	278
20110644	8P 1.5mm <sup>2</sup>	0.3	17.8	1.7	25	1	1,070	423
20110643	8P 1.5mm <sup>2</sup>	0.3	17.8	1.7	25	1	1,070	423
20195592	8P 2.5mm <sup>2</sup>	0.3	20.4	1.8	27	1	1,310	587
20161616	8P 2.5mm <sup>2</sup>	0.3	20.4	1.8	27	1	1,310	587
20372945	6T 0,75mm <sup>2</sup>	0.3	15.3	1.6	20.5	1	790	283
20372944	6T 0,75mm <sup>2</sup>	0.3	15.3	1.6	20.5	1	790	283
20372946	6T 1,5mm <sup>2</sup>	0.3	17.8	1.7	24	1	1,095	438
20372947	6T 1,5mm <sup>2</sup>	0.3	17.8	1.7	24	1	1,095	438
20440418	10P 0.75mm <sup>2</sup>	0.3	17.8	1.7	23.5	1	920	334
20112240	8T 0.75mm <sup>2</sup>	0.3	17.8	1.7	23	1	980	352
20110637	8T 0.75mm <sup>2</sup>	0.3	17.8	1.7	23	1	980	352
20110630	12P 0.75mm <sup>2</sup>	0.3	17.8	1.7	24	1	1,015	370
20110629	12P 0.75mm <sup>2</sup>	0.3	17.8	1.7	24	1	1,015	370
20117424	8T 1.5mm <sup>2</sup>	0.3	20.4	1.8	27	1	1,355	551
20110649	8T 1.5mm <sup>2</sup>	0.3	20.4	1.8	27	1	1,355	551
20110646	12P 1.5mm <sup>2</sup>	0.3	20.4	1.9	29	1	1,425	575
20110645	12P 1.5mm <sup>2</sup>	0.3	20.4	1.9	29	1	1,425	575

## DIMENSIONAL DATA CONTINUES

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm <sup>2</sup> ]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20152769	8T 2.5mm <sup>2</sup>	0.3	22.9	2	29.5	1	1,700	772
20139737	12P 2.5mm <sup>2</sup>	0.3	22.9	2	32.5	1.5	1,865	811
20110632	16P 0.75mm <sup>2</sup>	0.3	20.4	1.8	27	1	1,320	462
20110631	16P 0.75mm <sup>2</sup>	0.3	20.4	1.8	27	1	1,320	462
20109498	16P 1.5mm <sup>2</sup>	0.3	22.9	2	33	1.5	1,870	727
20109497	16P 1.5mm <sup>2</sup>	0.3	22.9	2	33	1.5	1,870	727
20109504	16P 2.5mm <sup>2</sup>	0.4	36.2	2.2	40	2	2,680	1,135
20170930	12T 0.75mm <sup>2</sup>	0.3	20.4	1.8	26.5	1	1,255	467
20110878	12T 0.75mm <sup>2</sup>	0.3	20.4	1.8	26.5	1	1,255	467
20170933	12T 1.5mm <sup>2</sup>	0.3	22.9	2	31.5	1.5	1,810	759
20109502	12T 1.5mm <sup>2</sup>	0.3	22.9	2	31.5	1.5	1,810	759
20170932	16T 0.75mm <sup>2</sup>	0.3	22.9	1.9	30	1.5	1,650	582
20110774	16T 0.75mm <sup>2</sup>	0.3	22.9	1.9	30	1.5	1,650	582
20166157	24P 0.75mm <sup>2</sup>	0.4	31.7	2.1	33	1.5	1,910	706
20110633	24P 0.75mm <sup>2</sup>	0.4	31.7	2.1	33	1.5	1,910	706
20210037	24T 0.75mm <sup>2</sup>	0.4	36.2	2.2	36.5	1.5	2,370	891
20170929	16T 1.5mm <sup>2</sup>	0.4	36.2	2.2	39.5	1.5	2,750	1,061
20109503	16T 1.5mm <sup>2</sup>	0.4	36.2	2.2	39.5	1.5	2,750	1,061
20109499	24P 1.5mm <sup>2</sup>	0.4	40.7	2.3	40	2	2,755	1,147
20109500	24P 1.5mm <sup>2</sup>	0.4	40.7	2.3	40	2	2,765	1,147
20195595	16T 2.5mm <sup>2</sup>	0.4	40.7	2.4	43.5	2	3,420	1,506
20272644	32P 1.5mm <sup>2</sup>	0.4	45.2	2.5	44	2	3,400	1,442
20131938	24T 0,75mm <sup>2</sup>	0.4	36.2	2.2	36.5	1.5	2,370	891
20210039	24T 1,5mm <sup>2</sup>	0.4	45.2	2.5	48	2	3,840	1,506
20210038	24T 1,5mm <sup>2</sup>	0.4	45.2	2.5	48	2	3,840	1,506

## ELECTRICAL VALUES INSTRUMENTATION CABLES

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Nominal operation capacitance [nF/km]	Operation self inductance [mH/km]	Loop resistance [Ohm]	L/R ratio [μH/Ohm]
20110624	1P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110623	1P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20222969	1P 1.5mm <sup>2</sup> CI5	12.9	16.45	125	0.63	25.8	36.8
20110639	1P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110638	1P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110867	1P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20110650	1P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20110635	1T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110634	1T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110648	1T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110647	1T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110869	1T 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20311221	1Q 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110625	1Q 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20104969	2P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110626	2P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20111213	2P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20110640	2P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20292819	2T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20203978	2P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20142038	2P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20110864	2T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110636	2T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110866	2T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20195593	2T 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20110628	4P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110627	4P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110642	4P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110641	4P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110868	4P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8

## ELECTRICAL VALUES INSTRUMENTATION CABLES

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Nominal operation capacitance [nF/km]	Operation self inductance [mH/km]	Loop resistance [Ohm]	L/R ratio [ $\mu\text{H}/\text{Ohm}$ ]
20384535	5P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20293408	5P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110865	4T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20111212	4T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20372943	6P 0,75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20372941	6P 0,75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20117428	4T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20109501	4T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20165927	6P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20195594	4T 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20372942	6P 2,5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20110773	8P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20109496	8P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110644	8P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110643	8P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20195592	8P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20161616	8P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20372945	6T 0,75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20372944	6T 0,75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20372946	6T 1,5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20372947	6T 1,5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20440418	10P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20112240	8T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110637	8T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110630	12P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110629	12P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20117424	8T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20110649	8T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110646	12P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20110645	12P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4

## ELECTRICAL VALUES INSTRUMENTATION CABLES

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Nominal operation capacitance [nF/km]	Operation self inductance [mH/km]	Loop resistance [Ohm]	L/R ratio [ $\mu\text{H}/\text{Ohm}$ ]
20152769	8T 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20139737	12P 2.5mm <sup>2</sup>	8.02	10.23	145	0.59	16.04	36.8
20110632	16P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110631	16P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20109498	16P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20109497	16P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20109504	16P 2.5mm <sup>2</sup>	8.02	10.23	110	0.66	16.04	41.1
20170930	12T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110878	12T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20170933	12T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20109502	12T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20170932	16T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110774	16T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20166157	24P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20110633	24P 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20210037	24T 0.75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20170929	16T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20109503	16T 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20109499	24P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20109500	24P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	24.4
20195595	16T 2.5mm <sup>2</sup>	8.02	10.23	105	0.66	16.04	41.1
20272644	32P 1.5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8
20131938	24T 0,75mm <sup>2</sup>	26.3	33.54	110	0.67	52.6	12.7
20210039	24T 1,5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	38.8
20210038	24T 1,5mm <sup>2</sup>	12.9	16.45	125	0.63	25.8	36.8

Maximum operating temperature = 90°C

**BENDING RADII & PULLING RECOMMENDATIONS**

Minimum Bending Radius During Installation / Minimum bøyeradius under installasjon	Minimum Bending Radius Fixed Installed / Minimum bøyeradius ferdig installert	Maximum Tensile Load During Installation / Maksimum trekkraft ved installasjon	Minimum Installation Temperature / Minimum installasjons temperature
8 x D	6 x D	50 N x total cross section (mm <sup>2</sup> ) of conductors / 50 N x totalt ledertverrsnitt (mm <sup>2</sup> )	- 20 °C

D = cable overall diameter

Maximum Tensile Load during installation shall not in any case exceed 20000N

© PRYSMIAN GROUP 2024, all rights reserved. All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by Prysmian Group.