**CBL ELEC N-ARM FIRE,0.45/0.75KV,3X2.5MM² 2030**Fire spec non armoured electrical cable  
Flammability properties        FLAME RETANDANT  
Voltage                        0.45/0.75 kV  
Construction                   Cu/EPR/SE4  
Mat, conductor wire            COPPER  
Mat spec, insulation           EPR  
Mat spec, outer sheath         SE4  
Colour, outer sheath           BLACK  
Identification, cores          BROWN(L1), BLACK(L2), GREY(L3)  
Number, cores                  3  
Cross section, cores           2.5 mm²  
Diameter, od, overall          10.9 mm (NOTE LESS)  
14.0 mm  
Shape                          CIRCULAR  
Class                          5 (BS EN 60228 / GOST 22483)  
Standard                       IEC 60228/GOST 22483  
Current rating, short-circuit  0.85/0.38/0.27 kA  
(0.1/0.5/1.0 s)  
Separation layer               SYNTHETIC TAPE/  
TALC POWDER OR OTHER  
SIMILAR MATERIAL  
Temperature rating, operating  +60 °C (MAX)  
Bending radius, min            112 mm (8 x D)  
Resistance, conductor, min     7.98 ohm/km AT 20 ºC  
Reactance, max                 0.105 ohm/km AT 50 Hz  
Current rating, air            25 A AT 30 °C (ADMISSIBLE  
SUSTAINED)  
Temperature rating, conductor  200/250 °C  
Climate application            HL/UHL 1 GOST 15150  
Temperature rating , ambient   -50 / +50 °C  
Relative humidity              98 %  AT 35 °C  
Installation temperature       -10 °C (WITHOUT PRE-HEATING)  
Service life                   25 YR (MIN)  
Warranty rated life            1 YR  
Weigh                          250 kgs/km  
Operation requirementS:  
1.Place of operation:  
Onshore technological complexes.  
The cables in all respects, be suitable for operation in  
conditions prevailing within a typical petrochemical  
facility and the stated service conditions where the  
atmosphere shall be regarded as saliferous and corrosive,  
as commonly encountered in installations in close proximity  
to the  
2. Appointment:  
A) Stationary laying conditions (motionless)- Yes  
B)Non-stationary laying conditions (in motion) -No  
Compliance internal requirements of company sakhalin energy:  
1000-S-40-68-S-0003-00 Technical specification for electric  
cables / wires and glands onshore  
Compliance with regulatory requirements:  
IEC 60245-4/ ГОСТ IEC 60245-4  
IEC 61034-2 / GOST IEC 61034-2 (minimum light transmission  
value of 60%)  
IEC 60754-1 / GOST IEC 60754-1 (maximum halogen gas emission  
of 0.5%)  
IEC 60754-2 / GOST IEC 60754-2(index pH ≥ 4.3, conductivity  
≤ 10 μS.mm-1)  
IEC 60684-2 (maximum fluorine emission 0.1%)  
IEC 60332-1-2 / ГОСТ IEC 60332-1-2(flame retardant cable at  
single laying)  
IEC 60079-14 / GOST IEC 60079-14  and(or) GOST R 58342 (for  
cable use in hazardous classified areas)  
Notes:  
1. Any deviations from the stated requirements must be  
communicated to the Customer and agreed.  
2.Requirements for the need to conduct tests for resistance  
to ozone are set when ordering. The length of the cable on  
the drum is agreed upon when ordering.  
3. Installation Method E(МЭК60364-5-52 / GOST R 50571-5-52)  
for Three loaded conductors in air, at 30 ºC  
Others:  
The size of the cable entry is determined when choosing the  
supplier / manufacturer of cable products  
Abbreviations:  
Cu – copper  
EPR - Ethylene-propylene rubber  
SE4 - Cable in a compound sheath based on polychloroprene  
compound (PCP) or other equivalent synthetic elastomer  
  
A01 Vendor Master Data Schedule (VMDS)  
B07 Vendor's Declaration of Compliance  
H18 Catalogue Data  
K04 Factory Acceptance Test Reports  
K38 CU TR Certificate / Declaration of Conformity for Low Voltage Equipment  
K39 RF / CU TR Fire Safety Certificate of Conformity  
L04 Quality Management Accreditation (including any manufacturing licenses held by Vendor, e.g. API, ASME etc.)  
P06 Preparation for Shipping with Recommended Handling, Storage & Preservation Procedures  
Recommended for purchase in Russian Federation

**CBL ELEC N-ARM FIRE,150/250V,2PR,1.0MM² 550м**

Fire spec non armoured electrical cable  
  
Application                    INSTRUMENT FIELD  
Flammability properties        FLAME RETARDANT  
Voltage                        150/250 V  
Mat, conductor wire            COPPER  
STRANDED TINNED ANNEALED  
Mat spec, inner sheath         LSF  
Mat spec, outer sheath         LSF  
Colour, outer sheath           GREY  
Identification, cores          BLACK/WHITE INSULATION  
WHITE/BLACK LETTERING ON  
Flame, propagation             IEC-60332-3 CATEGORY A  
Emission, smoke                IEC-61034-2  
Number, cores                  2 PAIR  
Cross section, cores           1.0 mm²  
  
Mat, conductor insulation      ETHYLENE PROPYLENE RUBBER  
Overall screen                 ALUMINIUM BACKED POLYESTER  
TAPE WITH STRANDED TINNED  
COPPER DRAIN WIRE  
- HCI emission less than 0.5%  
- Oxygen index of bedding and sheathing greater than 30%  
  
CNA020010