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| **CBL ELEC N-ARM FIRE,0.45/0.75KV,5X4MM²** 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          BLUE(N) + GREEN/YELLOW(PE) BROWN(L1), BLACK(L2), GREY(L3) Number, cores                  5 Cross section, cores           4 mm² Diameter, od, overall          15.6 mm (NOTE LESS) 19.9 mm  Shape                          CIRCULAR Class                          5 (BS EN 60228 / GOST 22483) Standard                       IEC 60228/GOST 22483 Current rating, short-circuit  1.36/0.61/0.43 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            159 mm (8 x D) Resistance, conductor, min     4.95 ohm/km AT 20 ºC Reactance, max                 0.098 ohm/km AT 50 Hz Current rating, air            34 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                          540 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 | 30 | **M** |
| **CBL ELEC N-ARM FIRE,0.45/0.75KV,3X2.5MM²** 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 | 500 | **M** |