Cable specifications

We need two types of cables :

Power supply cable (3C) : 150m

4Cx1.5mm2 cable : 1000m

| Life duration | 25 years |
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| Climatic conditions | Outdoor Cable shall be in use at temperature from -52°C to +30°C . |
| | Outdoor cables shall be designed to be pulled at a minimum temperature of -30°C (without preheating). |
| Exposure conditions | Instrument cables shall be suitable for exposure to the following as required for the installation conditions: - Occasional, inadvertent releases of gaseous hydrocarbons - Occasional acid and alkali spills - Rain and continuous moisture conditions - Continuous sunlight and UV exposure - Coastal locations - Snow & Ice coating |
| Hazardous area classification | All electrical field equipments shall be certified for the use in zone 1 / Gas Group IIB / Temperature class T3 as a minimum. |
| | For intended use in hazardous areas, all electrical instrumentation shall meet the electrical area classification in which they are installed and shall comply with GOST R IEC 60079 / GOST 31610.0-2014 and GOST 32407-2013 / GOST 31441.1-2011 for non- electrical equipment as minimum. |
| | Fire hazardous characteristics including smoke and fume discharge, toxicity of combustion products, flame retardant and fire resistant with appropriate fire hazardous class to be in accordance with GOST 31565-2012. |
| Smoke | Halogen free type |
| Flame retardant | All cables shall be as minimum flame retardant as per GOST IEC 60332.1 and non-fire propagation as per GOST IEC 60332.3.22 test category A. The minimum time for cable resistance to fire is 2 hours. |
| Cable characteristic | Copper instrument cables shall be solid, non- hygroscopic and fill the cross section to prevent the transmission of gas/vapor along the length of the |

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