Optical Cable Questionnaire

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| --- | --- |
| Company |  |
| Contact person |  |
| Contact info (phone, e-mail) |  |
| Project title |  |
| Date of request |  |

Optical fiber

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| --- | --- |
| Fiber count |  |
| Fibers distribution between bundles/tubes  -12 fibers/bundle, 24 fibers/tube  -12 fibers/bundle, 36 fibers/tube  -12 fibers/bundle, 48 fibers/tube  -Your option |  |
| Type of optical fiber  -SM G.652D,  -SM Bend Insensitive G.657A1/A2/B3  -SM NZSDF G.655  -SM G.654C/E  -MM G.651 50/125 OM2/OM3/OM4/OM5  -MM 62.5/125 OM1  -Your option |  |
| Color Coding Standard for optical fiber  - ANSI/TIA-598-D-2014  - DIN VDE  - Your option |  |

Cable design (if defined)

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| --- | --- |
| Type of core  - Central stainless steel loose tube  - Stranded stainless steel loose tubes  - Aluminum-clad central steel loose tube  - Aluminum pipe with stranded PBT tubes inside |  |
| OPGW configuration  Number, diameter and material of elements  AA – aluminum alloy wires  ACS – aluminum-clad steel wires (20SA, 30SA, 40SA)  SST – stainless steel tube  AC-SST – aluminum-clad SST (only as central element)  AP – aluminum pipe (only as central element)  For example  Central element 1 x SST 3.5 mm  First layer: 3 x AA 3.4 mm, 3 x ACS 3.4 mm | Central element:  *‘Diameter’ ‘Material’*  First layer:  *‘Number of elements’ x ‘Diameter’ ‘Material’*  Second layer:  *‘Number of elements’ x ‘Diameter’ ‘Material’*  Third layer:  *‘Number of elements’ x ‘Diameter’ ‘Material’*  Fourth layer:  *‘Number of elements’ x ‘Diameter’ ‘Material’* |

Parameters

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| --- | --- |
| Acceptable diameter range, mm |  |
| Rated breaking strength (RBS), kN |  |
| Maximum rated design tension, kN |  |
| Average operation load, kN |  |
| Operation temperature range, оС |  |
| OPGW total cross section, mm2 |  |
| Cross section of aluminum elements, mm2 |  |
| Cross section of steel elements, mm2 |  |
| Short circuit current capacity, kA2s |  |
| DC resistance at 20 оС, Оhm/km |  |
| Maximum reel length, km |  |
| Total cable length, km |  |
| Corrosion activity of the environment  -normal  -high! |  |
| Other parameters |  |

Application of cable / Technical task to solve

|  |  |
| --- | --- |
| Maximum span, m |  |
| Average operational sag on maximum span, m |  |
| Average span, m |  |
| Average operational sag on average span, m |  |
| Height above the ground level, m |  |
| Climatic conditions  -NESC Light  -NESC Medium  -NESC Heavy  -PUE 6  -PUE 7  -Your option |  |
| Ice thickness, mm  0 – 30 mm |  |
| Wind pressure, Pa  200 – 1500 Pa |  |
| Safety factor, N/m  0 – 4.38 N/m |  |

If you have a datasheet or technical description with design dimensions and materials of the required cable, please attach it to the questionnaire. If you need an identical cable, please specify that the analogues are not allowed.

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| Analogues are allowed | YES / NO |

Other information and requirements

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| --- | --- |
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Please, send the completed questionnaire to: [inquiry@emcab.co](mailto:%20inquiry@emcab.co)