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|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product type designation                                                          | MM FO CORD SC/LC, 50/125                                                                                                                                         |
| product description                                                               | Multimode glass fiber-optic cable, preassembled<br>MM FO Cord SC/LC; 50/125; pre-assembled with 1x SC duplex connector and 1x LC duplex connector; length 1.0 m. |
|  |                                                                                                                                                                  |
| Figure similar                                                                    |                                                                                                                                                                  |
| suitability for use                                                               | Cable for applications in the control cabinet                                                                                                                    |
| version of the assembled FO cable                                                 | Pre-assembled with 1x SC DUPLEX connector and 1x LC DUPLEX connector                                                                                             |
| cable designation                                                                 | I-V(ZN)H 2x50/125 OM2                                                                                                                                            |
| wire length                                                                       | 1 m                                                                                                                                                              |
| optical data                                                                      |                                                                                                                                                                  |
| attenuation factor per length                                                     |                                                                                                                                                                  |
| • at 850 nm / maximum                                                             | 3.5 dB/km                                                                                                                                                        |
| • at 1300 nm / maximum                                                            | 1.5 dB/km                                                                                                                                                        |
| bandwidth length product                                                          |                                                                                                                                                                  |
| • at 850 nm                                                                       | 500 GHz·m                                                                                                                                                        |
| • at 1300 nm                                                                      | 1300 GHz·m                                                                                                                                                       |
| mechanical data                                                                   |                                                                                                                                                                  |
| number of fibers / per FOC core                                                   | 1                                                                                                                                                                |
| number of FO cores / per FOC cable                                                | 2                                                                                                                                                                |
| version of the FO conductor fiber                                                 | Multi-mode gradient fiber 50/125 µm, OM 2                                                                                                                        |
| design of the FOC core                                                            | Fixed core                                                                                                                                                       |
| outer diameter                                                                    |                                                                                                                                                                  |
| • of the optical fibers                                                           | 50 µm                                                                                                                                                            |
| • of the optical fiber sheath                                                     | 125 µm                                                                                                                                                           |
| • of the FOC core sheath                                                          | 2.8 mm                                                                                                                                                           |
| width / of cable sheath                                                           | 5.9 mm                                                                                                                                                           |
| thickness / of cable sheath                                                       | 2.8 mm                                                                                                                                                           |
| material                                                                          |                                                                                                                                                                  |
| • of the fiber-optic cable core                                                   | Quartz glass                                                                                                                                                     |
| • of the optical fiber sheath                                                     | Quartz glass                                                                                                                                                     |
| • of the FOC core sheath                                                          | FR-LSZH                                                                                                                                                          |
| • of the fiber-optic cable sheath                                                 | LSZH                                                                                                                                                             |
| • of the strain relief                                                            | Aramid fibers                                                                                                                                                    |
| color                                                                             |                                                                                                                                                                  |
| • of the FOC core sheath                                                          | green/green                                                                                                                                                      |
| bending radius                                                                    |                                                                                                                                                                  |
| • with single bend / minimum permissible                                          | 42 mm                                                                                                                                                            |
| tensile load                                                                      |                                                                                                                                                                  |
| • during installation / short-term                                                | 500 N                                                                                                                                                            |
| • during operation / maximum                                                      | 500 N                                                                                                                                                            |
| continuous shear force per length                                                 | 100 N/cm                                                                                                                                                         |
| ambient conditions                                                                |                                                                                                                                                                  |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ambient temperature                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during installation</li> </ul>                                                                                                                                                                                                                                                                               | -30 ... +70 °C<br>-30 ... +70 °C<br>-30 ... +70 °C<br>-5 ... +50 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| fire behavior                                                                                                                                                                                                                                                                                                                                                                                                                   | flame-resistant acc. to IEC 60332-3-22 (Cat. A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| protection class IP                                                                                                                                                                                                                                                                                                                                                                                                             | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>product features, product functions, product components / general</b>                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| product feature                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>halogen-free</li> <li>silicon-free</li> </ul>                                                                                                                                                                                                                                                                                                                                            | Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| product component / rodent protection                                                                                                                                                                                                                                                                                                                                                                                           | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>standards, specifications, approvals</b>                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| certificate of suitability                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| reference code                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>according to IEC 81346-2</li> <li>according to IEC 81346-2:2019</li> </ul>                                                                                                                                                                                                                                                                                                               | WH<br>WHA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>further information / internet-Links</b>                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Internet-Link                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul> | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a><br><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a><br><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |
| <b>last modified:</b>                                                                                                                                                                                                                                                                                                                                                                                                           | 5/10/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |