SPECIAL HIGH PERFORMANCE CABLES
AICI/AIOI/AICU - Multitight Distribution

APPLICABLE STANDARDS
Optical fibre characteristics IEC 60793-1
Optical fibre cable characteristics IEC 60794-1
Fire retardant IEC 60332-3 EN 50266
Flame retardant IEC 60332-1EN 60332-1

FEATURES & APPLICATIONS
- Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems

TEMPERATURE RANGE
-40/+70°C (operating)
-40/+70°C (storage)
-10/+70°C (installation)

MINIMUM BENDING RADIUS
20 times overall diameter (dynamic)
10 times overall diameter (static)

CABLE CONSTRUCTION
Fibres
Singlemode and multimode fibres, with tight coating.
Structure
Fibres are cabled around a FRP (fibreglass reinforced plastic) and reinforced with aramidic yarns.
Inner sheath
LSZH (M1) compound
Armouring
AICI type: galvanized steel wire braid
AIOI type: bare or tinned copper wire braid
Outer sheath
AICI type: LSZH (M1) compound
AICU type: oil and mud resistant LSZH (M1) compound

Type | Fibre (n° max) | Diameter (mm) | Weight (kg/km) | Tension load (N) | Crush (N/100mm) |
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MTI-000-02-M1-A1-AICI/AIOI/AICU | 2 | 7.8 | 80 | 600 | 2000 |
MTI-000-04-M1-A1-AICI/AIOI/AICU | 4 | 8.0 | 88 | 600 | 2000 |
MTI-000-06-M1-A1-AICI/AIOI/AICU | 6 | 8.0 | 90 | 800 | 200 |
MTI-000-08-M1-A1-AICI/AIOI/AICU | 8 | 9.0 | 110 | 1000 | 2000 |
MTI-000-12-M1-A1-AICI/AIOI/AICU | 12 | 10.0 | 130 | 1000 | 2000 |
MTI-000-16-M1-A1-AICI/AIOI/AICU | 16 | 10.5 | 165 | 1000 | 2000 |

approximate values

Approved by:

Test on gases evolved during combustion IEC 60754EN 50267-2
Low smoke emission IEC 61034-2EN 50268-2
Cables for offshore installation NEK 606