



SIMATIC NET,  
IE FC TP STANDARD CABLE GP,  
TP INSTALLATION CABLE FOR CONNECTION TO FC  
OUTLET RJ 45,  
FOR UNIVERSAL APPLICATIONS, CAT 5,  
1000 M

Cable length 1000 m

[nicht versorgt: TAK\_ABR691\_001\_000]

Damping ratio per length

- at 10 MHz / maximum 0.052 dB/m
- at 100 MHz / maximum 0.195 dB/m

Impedance

- for frequency range 1 MHz ... 100 MHz 100  $\Omega$

Relative symmetrical tolerance

- of the surge impedance at 1 MHz ... 100 MHz 15 %

Transfer impedance / at 10 MHz

10 m $\Omega$ /m

Loop resistance per length / maximum

115  $\Omega$ /km

Operating voltage

- RMS value 100 V

### Mechanical data

Number of electrical wires

4

Design of the electrical connection / FastConnect

Yes

Core diameter

- of the AWG22 core 0.64 mm

Outer diameter

- of the inner conductor 0.64 mm
- of the wire insulation 1.5 mm

|                                                            |                |
|------------------------------------------------------------|----------------|
| • of the inner sheath of the cable                         | 3.9 mm         |
| • of the cable sheath                                      | 6.5 mm         |
| Symmetrical tolerance of outer diameter / of cable sheath  | 0.2 mm         |
| Material                                                   |                |
| • of cable sheath                                          | PVC            |
| Bending radius                                             |                |
| • with single bend / minimum permissible                   | 19.5 mm        |
| • with multiple bends / minimum permissible                | 49 mm          |
| Traction stress / maximum                                  | 150 N          |
| Weight per length                                          | 67 kg/km       |
| <b>Permitted ambient conditions</b>                        |                |
| Ambient temperature                                        |                |
| • during operating                                         | -40 ... +75 °C |
| • during storage                                           | -40 ... +75 °C |
| • during transport                                         | -40 ... +75 °C |
| • during installation                                      | -20 ... +60 °C |
| <b>Product properties, functions, components / general</b> |                |
| Product feature                                            |                |
| • halogen-free                                             | No             |
| • [not supplied - silicon-free]                            | Yes            |
| Cable length                                               |                |
| • with 100BaseTX / for Industrial Ethernet                 | 100 m          |
| <b>Standards, specifications, approvals</b>                |                |
| Verification of suitability                                |                |
| • CE mark                                                  | Yes            |
| Marine classification association                          |                |
| • American Bureau of Shipping Europe Ltd. (ABS)            | No             |
| • Bureau Veritas (BV)                                      | No             |
| • Det Norske Veritas (DNV)                                 | No             |
| • Germanische Lloyd (GL)                                   | No             |
| • Lloyds Register of Shipping (LRS)                        | No             |
| • Nippon Kaiji Kyokai (NK)                                 | No             |
| • Polski Rejestr Statkow (PRS)                             | No             |
| <b>letzte Änderung:</b>                                    | Jul 17, 2012   |