

SPECIAL PROFIBUS 634 UL, UL approval, for cable tracks



ELETTROTEK KABEL® SPECIAL PROFIBUS 634 UL






Construction:

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|----------------------|--|
| CONDUCTOR: | 0,34 mm²: FLEXIBLE RED COPPER CONDUCTOR, 19X0,16 mm - 22/19 AWG ACC. TO DIN VDE 0812 0,75 mm²: FLEXIBLE RED COPPER CONDUCTOR CL. 6, ACC TO IEC 60228, DIN VDE 0295 42X0,15 mm - AWG 19/42 |
| INSULATION: | 0,34 mm²: SPECIAL PE COMPOUND 0,75 mm²: SPECIAL PP COMPOUND |
| COLOUR CORES: | 0,34 mm²: RED, GREEN 0,75 mm²: BROWN, LIGHT BLUE AND GREEN-YELLOW |
| STRANDING: | 0,34 mm²: IN PAIR + PE FILLERS 0,75 mm²: IN LAYERS + FILLERS |
| SCREEN: | 0,34 mm²: ALUMINIUM TAPE + PETP FOIL AND TINNED COPPER BRAID |
| WRAPPING: | 0,34 mm²: NON-WOVEN TAPE 0,75 mm²: NON-WOVEN TAPE |
| OUTER SHEATH: | VIOLET (RAL 4001 OR 4005), PUR COMPOUND |


Technical data:

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|--------------------------------------|-------------------|
| PEAK OPERATING VOLTAGE: | MAX. 350 V |
| VOLTAGE UL: | 300 V |
| TEST VOLTAGE: | 1,5 kV |
| TEMPERATURE RANGE | -40°C UP TO +80°C |
| MIN. BENDING RADIUS: | |
| FIXED LAYING: | 10 x D |
| FLEXIBLE INSTALLATION: | 15 x D |
| MAX SPEED (MAIN APPLICATION): | 250 m/min |

Resistance:

| | |
|--|---|
|  | SELF-EXTINGUISHING AND FLAME RETARDANT ACC. TO: UL 1581 1061, IEC 60332-1-2 EN 60332-1-2 |
|  | OIL RESISTANCE ACC. TO: IEC 60811-2-1 ICEA 5-82-552 AND ASTM OIL 1 |
|  | HALOGEN-FREE ACC. TO: IEC 60754-1 EN 50267-2-1 |
|  | CORROSIVENESS OF CONFLAGRATION GASES ACC. TO: IEC 60754-2 AND EN 50267-2-2 + VDE 0482 PART 267-2-2 NO DEVELOPMENT OF CORROSIVE CONFLAGRATION GASES |
|  | UV RESISTANCE ACC. TO: UL1581 §1200 STD. |

Features:

-  AWM STYLE 10493 - 20233 80°C 300 V
- PROFIBUS DP TYPE A**
- FOR SPEED AND MINIMUM BENDING RADIUS SEE PAGES FROM 1 TO 4 OF CATALOGUE
- ROHS AND CE APPROVAL



Electrical and Transmission proprieties at 20°C PROFIBUS UL

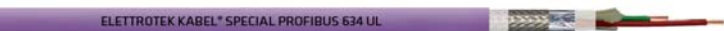
Profinet bus

| | |
|---|-----------------|
| MAX. DC COND. RESISTANCE | 59,4 Ω x km |
| MAX. CAPACITANCE AT 800 Hz | 30 nF/km |
| IMPEDANCE AT 800 1-20 MHz | 150 Ω (± 10%) |
| MAX. ATTENUATION AT 9,6 KHz | 4,2 dB/km |
| MAX. ATTENUATION AT 38,4 KHz | 5,2 dB/km |
| MAX. ATTENUATION AT 4 MHz | 2,3 dB/km |
| MAX. ATTENUATION AT 16 MHz | 44,0 dB/km |
| DIELECTRIC STRENGTH (COND/COND/ SHIELD) | 1,5 kVAC/1 min. |
| MIN. INSULATION RESISTANCE | 5,0 Ω x km |
| TRANSFER IMPEDANCE AT 10 MHz | 20 MΩ/m |

Power conductors

| | |
|---------------------------------|------------------|
| MAX. DC COND. RESISTANCE | 26,0 Ω x km |
| DIELECTRIC STRENGTH (COND/COND) | 2,5 kVAC/10 min. |
| MIN. INSULATION RESISTANCE | 5,0 Ω x km |

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| Part no. | No. of cores x cross section n x mm ² | Outer-Ø ca. mm ± 10% | Copper weight kg/km | Cable weight approx. kg/km | AWG no. *) |
|----------------|--|----------------------------|---------------------------|----------------------------------|---------------|
| 39180CVB020M03 | 2 x 0,34 | 8 | 30,9 | 74 | 22 |
| 39180CV403BM07 | 2 x 0,34+3 x 0,75 | 10,4 | 45 | 90 | 22/19 |

Other dimension and colours available on request.