# Data sheet

## MC GC400 SL24 Cat.6 U/UTP LSHF 305 m, class $E_{ca}$



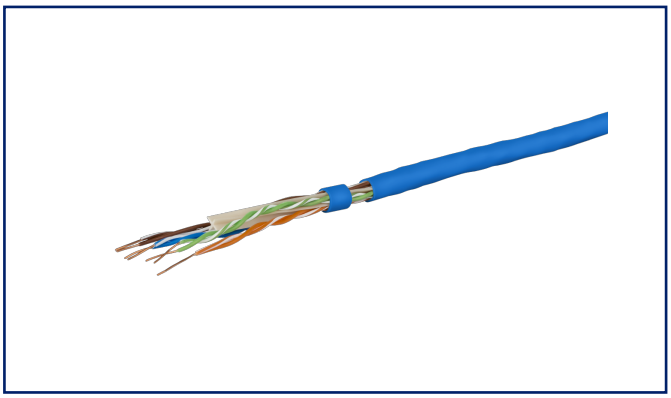
**P/N 1308406032140**

**EAN 4250184175216**

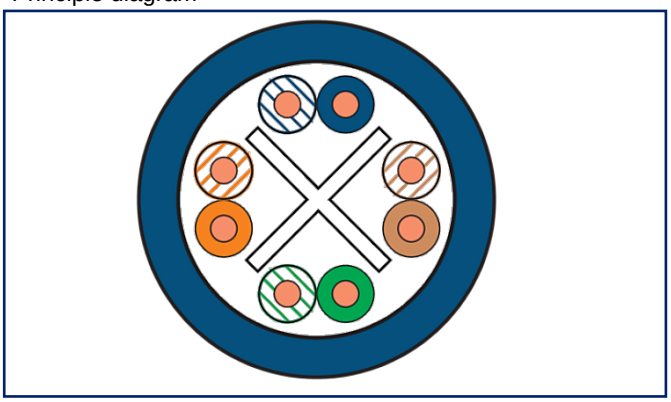
2026/10/21

Version: BE

## Illustrations



Principle diagram



See enlarged drawings at the end of document

## Product specification

- 1 GBit installation cable, simplex
- unshielded installation cable Cat.6 class E, AWG 24 U/UTP
- 4 pairs with separator (spline)
- outer diameter: 5.40 mm
- color of the cable jacket: blue
- coupling attenuation greater than or equal to 40 dB
- applicable standards: EN 50173-1, ISO/IEC 11801, EN 50288-6-1, IEC 61156-5
- cable jacket: LSHF (LSOH)
- flame-retardant to IEC 60332-1, IEC 60754-2, IEC 61034 and EN 50399
- fire behaviour: Class $E_{ca}$ (classification acc. to EN 13501-6)
- delivery unit: in carton - 305 m/1000 ft

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Weitere Dokumentation siehe / additional documentation see / documentation supplémentaire voir www.metz-connect.com

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## Technical Data

| | |
|---|---|
| **General Data** | |
| Fields of application | Primary (Campus)<br>Secondary (Riser)<br>Tertiary (Horizontal) |
| Applications | IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T<br>IEEE 802.5 16 MB; ISDN;TPDDI; ATM Power over Ethernet (PoE) / PoE+ |
| Kabelaufbau | |
| Cable Type | U/UTP |
| Conductor material | Copper |
| Conductor class | Cl.1 = solid |
| Conductor surface | blank |
| Conductor diameter (mm) | 0.51 mm |
| Conductor diameter (inch) | 0.02 in. |
| AWG size | 24 |
| Core number | 8 |
| Number of twisting elements | 4 |
| Twisting element | Pair |
| Twisted stranding | Bundle |
| Jacket color | blue |
| Außendurchmesser | |
| Cable sheath diameter | 5.40 mm |
| Cable sheath diameter | 0.212 in. |
| **Mechanical data** | |
| Tensile force | 100 N |
| **Brandeigenschaften** | |
| Flame retardant according to IEC 60332-1-2 | yes |
| Low smoke according to EN IEC 61034-2 | yes |
| Halogen-free according to EN IEC 60754-2 | yes |
| Fire behavior according to EN 13501-6: Class | Eca |
| Fire load | 0.087 kWh/m |
| Fire load | 316 MJ/km |

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## Technical Data

| | |
|---|---|
| **Electrical characteristics** | |
| Category | 6 |
| NVP value | 67 % |
| Isolation class according to EN 50174 | b |
| Loop resistance | max. 190 Ohm |
| Coupling attenuation | min. 40 dB |
| Signal propagation delay | max. 535 ns/100 m |
| Delay skew | max. 20 ns/100 m |
| Insulation resistance | 5000 MOhm.km |
| Test voltage (DC, 1 min) Core/core | 1000 V |
| **Anwendungseigenschaften / Umgebungsbedingungen** | |
| Permitted type of installation in the ground | Installation pipe for underground installation |
| Functional integrity according to IEC 60331-23 | no |
| Oil-resistant according to EN IEC 60811-404 | no |
| Min. permissible bending radius, flexible use with forced guidance (mm) | 43.2 mm |
| Min. permissible bending radius, flexible use/free movement (mm) | 43.2 mm |
| Min. permissible bending radius, stationary use/fixed installation (mm) | 21.6 mm |
| Min. permissible bending radius, flexible use with forced guidance (inch) | 1.701 in. |
| Min. permissible bending radius, flexible use/free movement (inch) | 1.701 in. |
| Min. permissible bending radius, stationary use/fixed installation (inch) | 0.85 in. |
| Zulässige Kabelaußentemperatur bei Montage/Handling | |
| Zulässige Kabelaußentemperatur bei Montage/Handling | 0 °C - 50 °C |
| Permissible external cable temperature during installation/handling | 32 °F - 122 °F |

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## Technical Data

| | |
|---|---|
| **Anwendungseigenschaften / Umgebungsbedingungen** | |
| Zulässige Kabelaußentemperatur nach Montage ohne Erschütterung | |
| Permissible external cable temperature after installation without vibration | -20 °C - 60 °C |
| Permissible external cable temperature after installation without vibration | -4 °F - 140 °F |
| UV-resistance | no |
| **Materials and material properties** | |
| Material - core insulation | Polyethylene (PE) |
| Material - protective jacket | LSHF (LSOH) |
| **Geltende Normen** | |
| General requirements | ISO/IEC 11801<br>DIN EN 50173-1 |
| PoE | IEEE 802.3af |
| PoE plus | IEEE 802.3at |
| UPoE | yes |
| 4PPoE | IEEE 802.3bt |
| Multi-core metallic data & control cables for analog & digital transmission | DIN EN 50288-6-1<br>IEC 61156-5 |
| **Classifications** | |
| ETIM 8.0 | EC003249 |
| ETIM 9.0 | EC003249 |
| ETIM 10.0 | EC003249 |
| **Packing details** | |
| Type of packaging | 305 meter / box |
| GTIN13 | 4250184175216 |

### Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.

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## Accessories

| P/N | Designation |
|---|---|
| 140302-01-E | Jokari dismantle tool |

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## Accessories from

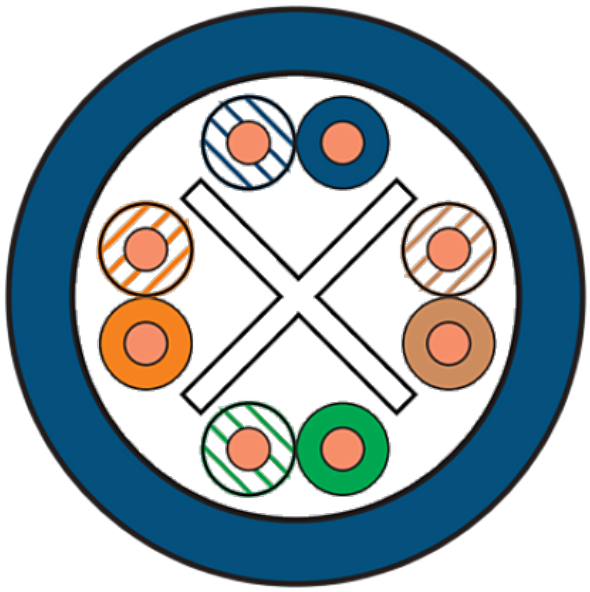
| P/N | Designation |
|---|---|
| 130E507032-E | $C6_A$ RJ45 field plug ultra short |

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## Illustrations

Principle diagram



Elektrische Daten

Cat.6 Übertragungseigenschaften bei 20°C (Nominal)

| F (MHz) | Attenuation (dB/100m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100m) | PS-ACR (dB/100m) | ACRF (dB/100m) | PS-ACRF (dB) | Return loss (dB) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2,1 | 75 | 72 | 73 | 70 | 82 | 79 | 22 |
| 4 | 3,8 | 66 | 63 | 62 | 59 | 70 | 67 | 25 |
| 10 | 6 | 60 | 57 | 54 | 51 | 62 | 59 | 27 |
| 16 | 7,6 | 57 | 54 | 49 | 46 | 58 | 55 | 27 |
| 20 | 8,5 | 56 | 53 | 48 | 45 | 56 | 53 | 27 |
| 31,2 | 10,7 | 53 | 50 | 42 | 39 | 52 | 49 | 26 |
| 62,5 | 15,5 | 48 | 45 | 32 | 29 | 46 | 43 | 24 |
| 100 | 19,9 | 45 | 42 | 25 | 22 | 42 | 39 | 22 |
| 125 | 22,5 | 44 | 41 | 22 | 19 | 40 | 37 | 21 |
| 155,5 | 25,3 | 42 | 39 | 17 | 14 | 38 | 35 | 21 |
| 175 | 27,1 | 42 | 39 | 15 | 12 | 37 | 34 | 20 |
| 200 | 29,1 | 41 | 38 | 12 | 9 | 36 | 33 | 20 |
| 250 | 33 | 39 | 36 | 6 | 3 | 34 | 31 | 19 |
| 300 | 36,6 | 38 | 35 | 1 | -2 | 32 | 29 | 19 |
| 400 | 43,2 | 36 | 33 | -7 | -10 | 30 | 27 | 18 |

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