Data sheet

MC GC400 SL24 Cat.6 U/UTP LSHF 500 m, class E_{ca}

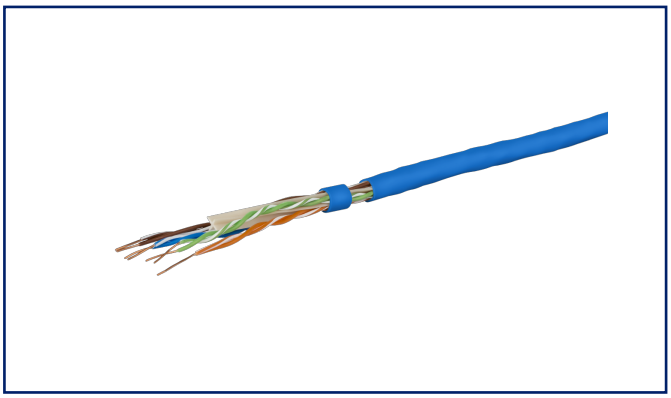
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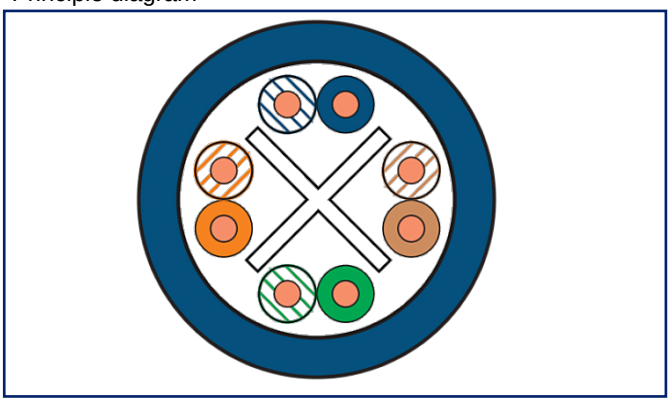
2026/10/21

Version: BA

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: on drum - 500 m/1640 ft

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Technical Data

General Data	
Fields of application	Primary (Campus) Secondary (Riser) Tertiary (Horizontal)
Applications	IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T 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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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 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 IEC 61156-5

Classifications

ETIM 8.0	EC003249
ETIM 9.0	EC003249
ETIM 10.0	EC003249

Packing details

Type of packaging	500 meter / drum
GTIN13	4250184175223

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

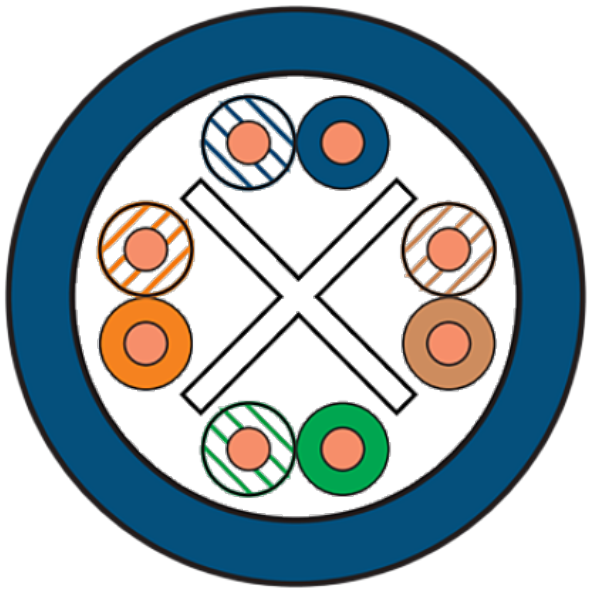
P/N	Designation
130E507032-E	$C6_A$ RJ45 field plug ultra short

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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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