

∅ 4,1 mm max.

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A4

Falls nicht anders definiert, alle Maße in mm.
Unless otherwise specified all dimensions in mm.

Maße ohne Toleranzangabe sind Nominalmaße.
All dimensions nominal unless otherwise specified.

Schematische Darstellung
Schematic view only

Maßstab/Scale
./.

Toleranzen/Tolerances
./.

D	10.08.16	SH	10133
C	18.06.15	GD	8627
B	22.10.14	SH	8012
A	11.08.14	SH	-
Revision	Datum/Date	Gezeichnet/Drawn	PLFECO no.

Benennung/Description

Digital Data Transmission Cable Star Quad
100 Ohms – Light Weight



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Zeichnungsnr./Drawing no.

GSC-03-84608-00

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Ersatz für / Replacement for

Ersetzt durch / Replaced by

Construction

- | | |
|--|--|
| 1. Filler as required
material | fluoroplastic |
| 2. Quad
4 Leads
Conductor
material
size
Insulation
material
colours | Cd-free copper alloy, silver plated
AWG 24 (19/36)


PTFE over ePTFE
Pair 1: A = red / C = blue
Pair 2: B = green / D = yellow |
| 3. Binder
material | ePTFE |
| 4. Braided shield
material
size | silver plated copper
AWG 40 (01) |
| 5. Binder
material | ePTFE |
| 6a. Jacket
material
colour
print, green | high strength toughened fluoropolymer
white
„GSC-03-84608-00 WO ...” (WO = work order no.) |
| 6b.
material
colour | high strength toughened fluoropolymer
natural, laser markable |

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Characteristics

Operating voltage:	<50 V rms
Test voltage:	2,5 kV DC
Insulation resistance:	1,5 GΩ x km
Impedance A/C; B/D	100 Ohm +/- 10 Ohm
Mutual Capacitance	45 pF/m
Velocity of Propagation	> 70 %
Attenuation	6,5 dB max @ 10 MHz / 70 m*) 22,0 dB max @ 100 MHz / 70 m*)
NEXT	50,3 dB min @ 10 MHz 35,3 dB min @ 100 MHz
Skew within pair	15 ps/m
Structural return loss	25,0 dB @ 10 MHz 20,1 dB @ 100 MHz
Loop-resistance A/C; B/D	< 185 Ω /km max.
DC-resistance Pos. 4	< 19 Ω /km max.
Operating temperature:	-65°C to +200°C
Bending radius, static	20 mm min.
Weight	33 g/m nom. / 36 g/m max.

*) Cable Budget Length to meet CAT5e Attenuation requirements!

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