



MultiColor Flex 14/1040

Product specification sheet

The MultiColor Flex 14 is encased in opal, white plastic, but its low height nevertheless provides it with a visible pitch, and it is therefore particularly suited for indirect lighting installations where the actual conductor film should not be visible.

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Döllken
Lighting



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dimensions

measures	14,2 x 4,5 mm
step length	50 mm
pitch	7,14 mm
max. connection length*	4,8 m

light

CCT of PCB**	2.7/4.000 K
luminous flux***	1006 lm/m
binning	MacAdam Step 3
CRI of PCB [Ra]	> 90
expected life time	50.000 h, LM70

electrical

voltage	24 V
power	19,2 W/m
LEDs per step	7
current per step	40 mA
constant current driver each step	yes
ESD protection	no
inverse polarity connection	yes
Tc°	55°C
dimmable	yes, only PWM
needed driver must comply	24 V DC SELV

mechanical

dimensions of smallest operating unit	50 x 14,2 x 4,5 mm
suitable mounting method****	aluminum mounting profile, glue
degree of protection (strip)	IP68, 10 m
degree of protection (connection)	IP68, 10 m
mechanical impact protection	IK08
bending radius vertical	50 mm
bending radius horizontal	200 mm
aluminium profil dimensions	2.500 x 17 x 6,7 mm
aluminium profil colour	aluminium

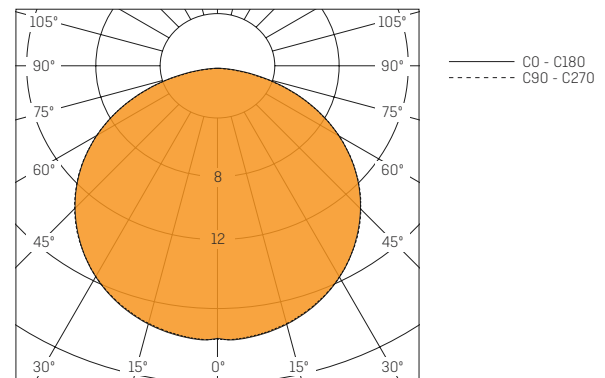
encapsulation

combustibility class	UL-94-HB
dielectric strength	18 kV/mm
halogen free	yes
chlorine free	yes

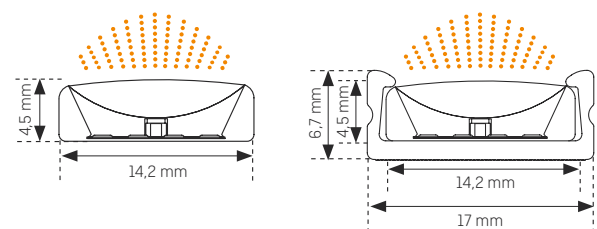
environmental /compliances

ambient temperature	-20 °C to +60 °C
WEEE-Reg. No.	41380720, Döllken Lighting Flex Line
compliances	CE, RoHS, DIN EN 62031:2008, DIN EN 62717
warranty	5 years (conditions apply)
energy efficiency class	A - A++

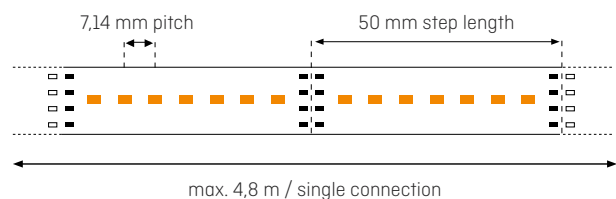
light intensity distribution



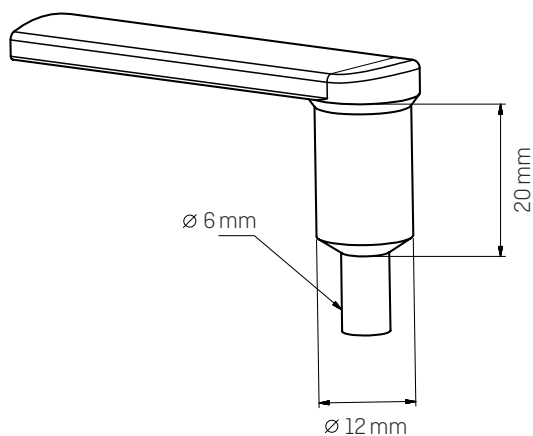
technical drawings



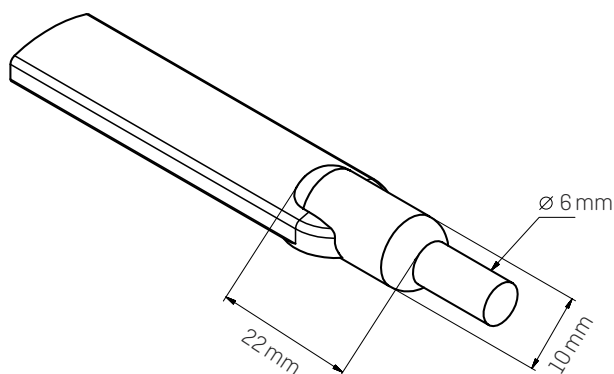
step schematic



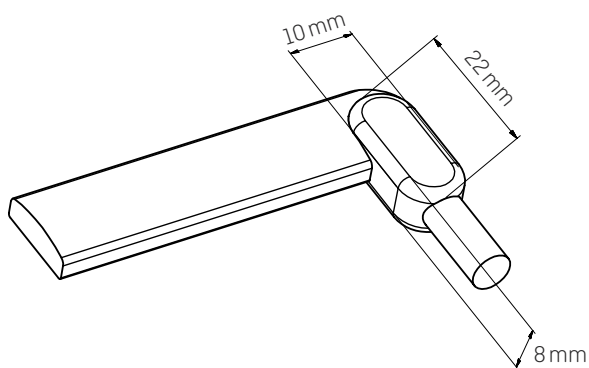
- * maximum connection length with constant light output depends on cable length
- ** correlated colour temperature of PCB, encapsulation will affect the colour temperature
- *** luminous flux is related to 2.700 K
- **** the LED modules are being delivered without any adhesive tape or glue, aluminum profiles have to be ordered separately, recommendations regarding suitable glue/tapes are being given for individual projects



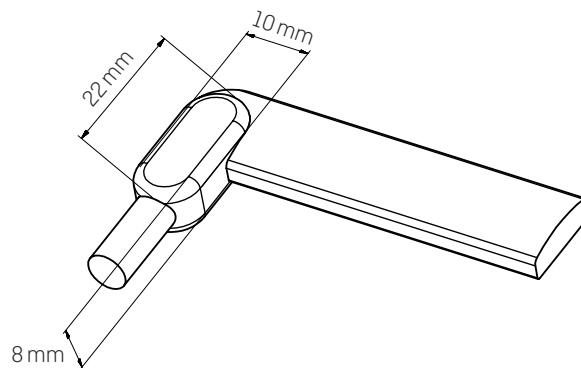
VERTICAL CONNECTION



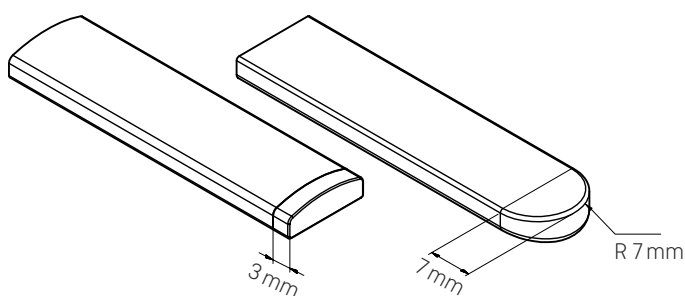
HORIZONTAL CONNECTION



SQUARE CONNECTION LEFT



SQUARE CONNECTION RIGHT



SQUARE/ROUND ENDCAPS

Product	short form	CCT	article number
MultiColorFlex 14/1040/2K7 wh/op	MCF14/1040/2K7 wh/op	2.700 K	5123563
MultiColorFlex 14/1040/4K0 wh/op	MCF14/1040/4K0 wh/op	4.000 K	5123564
Aluminum Profile MCF14	-	-	5118256

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