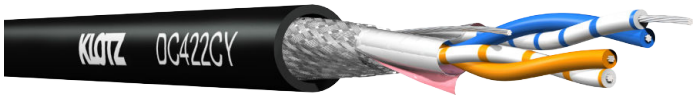
bulk cables | DMX | lighting | 100 Ω balanced | DC422CY



100 Ohm RS232/422 data cable
2x 2x 0.22 mm² - PVC

- 0.22 mm² conductor cross section (AWG 24)
- 100 Ohm characteristic impedance
- double shielding (overall foil and braid shield)

PVC

Constantly rising data rates and long transmission lengths require high-quality cables with exactly defined transmission characteristics. For the improvement of cross-talk and electromagnetic compatibility symmetrical, narrowly twisted pairs and a dense copper braid are required. Low capacitances and an exactly defined characteristic impedance of 100 ohm allow the transmission of high frequency control and data signals in RS232-, RS422- and DMX applications over long distances. The optimised, compact construction and the stranded drain wire permit a easy assembly with XLR connectors.

design

cond. construction	stranded tinned copper, 7x 0.20 mm (AWG 24/7)
cond. cross section	0.22 mm²
insulation	polyethylene (PE)
core stranding	2 cores twisted to a pair
cable stranding	2 pairs stranded
overall shield	AL/PET foil, metal outside + stranded tinned copper drain wire + tinned copper braid (>75% coverage)
outer jacket	PVC
overall diameter	6.5 mm

mechanical & thermal characteristics

operating temperature	-25°C / +70°C
min. bending radius	
installed	4x overall diametre
mobile use	6x overall diameter
no hazardous substances	acc. to EU directivo RoHS 2011/65/EU from 08.06.2011
CE conformity	acc. to EU directivo LVD 2006/95/EG
flame retardancy	flame retardant acc. to IEC 60332-1-2
heat of combustion	774 kWh/km

electric

conductor resistance	80 Ω/km
capacitance	
cond./cond.	45 pF/m
characteristic impedance	100 Ω
nom. attenuation [dB/100m]	
1 MHz	2.1
3 MHz	3.3
10 MHz	6.5
insulation resistance	> 30 GΩ x km
test voltage	
cond./cond.	1200 V
cond./shield	500 V

order code	cable color	weight kg/m	standard lengths m
DC422CY	black	0,06	50 / 100 / 200 / 300 / 500

technical specifications are subject to change

KLOTZ AIS GmbH
Johann-Sebastian-Bach-Str. 36
85591 Vaterstetten / Munich
Tel.: +49.(0)8106.308.0
Fax: +49.(0)8106.308.101
info@klotz-ais.com
klotz-ais.com

KLOTZ interfaces