

XMK-HF Dca 0,6/1 kV EMC

1 kV power cable with EMC-shielding

RATED VOLTAGE

U_o/U = 0,6 / 1 kV

APPLICATION

For fixed installation indoors, outdoors and underground.
Well suited for transmission of electricity e.g. at antenna feeder systems. Sheath material is resistant to sunlight (UV).

The cable glands in connecting boxes shall be of the type designed for EMC-operation in order to be able to completely utilize the interference protecting properties of the cable.
Transfer impedance: max. 100 mohm/m (freq. up to 30 MHz).
Current carrying capacities: SFS 6000-5-52, IEC 60364-5-52

Highest permissible temperature of conductor:

- in continuous operation +90 °C
- in a short circuit (duration up to 5 s) +250 °C

Lowest recommended temp., during laying -15 °C

Maximum permissible pulling force

- by pulling direct from all insulated conductors
A x50 N/mm² (A = total area [mm²] of insulated cond.)

Minimum permissible bending radius

- during laying 12x OD
- in a final installation (bent into final pos.) 8x OD
(OD = Cable diameter [mm], over sheath)

PROPERTIES

CONSTRUCTION

Conductor	6-10 mm ² : round stranded copper 16-35 mm ² : round stranded copper (finer w.) 6-16 mm ² : aver. thickn. 0,7 mm (IEC 60502-1) 25-35 mm ² : aver. thickn. 0,9 mm (IEC 60502-1) 50 mm ² : aver. thickn. 1,0 mm (IEC 60502-1)
Insulation	PEX compound (resistant to sunlight)
Inner covering	filling compound
EMC-shielding	combination of lapped copper tape and layer of copper wires
Sheath	black weatherproof halogen-free compound average thickness is 1,8 mm (IEC 60502-1)

CORE IDENTIFICATION

According to HD 308 S2

2 inner cores: Blue and brown

STANDARDS

IEC 60502-1

EN 13501-6, class D_{CA}-s2,d2,a2 (CPR, reaction to fire); not yet 2x50/2,5

IEC 60332-1-2 (flame retardant) ; IEC 60332-3 (fire retardant)

IEC 61034 (low smoke) ; IEC 60754 (halogen-free)

CERTIFICATE, APPROVAL

CE

Does not include raw materials from REACH/SVHC-list.

Used raw materials fulfil the requirements of RoHS-directive.

PRODUCT NAME *)	Nokia CS codes	Max. DC resistance of conductor (phase), +20°C	Current-carrying capac., method E: air, cond.t. +90C	Cable over diameter (1)	Cable OD tolerance	Cable weight (1)
XMK-HF Dca 2x6/2,5 RM K8/500	CS73178.30	3,08 ohm/km	63 A	16,5 mm	15,5 - 17,5 mm	420 kg/km
XMK-HF Dca 2x10/2,5 RM K9/500	CS73178.31	1,83 ohm/km	86 A	18 mm	17 - 19 mm	550 kg/km
XMK-HF Dca 2x16/2,5 RMF K8/250	CS73178.32	1,16 ohm/km	115 A	19,5 mm	19 - 21 mm	710 kg/km
XMK-HF Dca 2x25/2,5 RMF K9/250	CS73178.33	0,734 ohm/km	149 A	23,5 mm	23 - 25,5 mm	1060 kg/km
XMK-HF Dca 2x35/2,5 RMF K9/250	CS73178.34	0,529 ohm/km	185 A	26 mm	25 - 28 mm	1400 kg/km
XMK-HF 2x50/2,5 RMF K11/250	CSxxxxx.xx	0,391 ohm/km	225 A	30 mm	29 - 32 mm	1800 kg/km

(1) Approximate value

*) The full dimension of wooden drums K8 (800x800x580 mm); K9 (900x900x630 mm) and K11 (1100x1100x770 mm) can be find out from different document.

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