



# MCX2B

Screened cable for audio/video data transmission, acc. to CEI UNEL 36762 C-4 ( $U_0 = 400\text{V}$ ), EN 50575:2014 + A1:2016, Eca

## Construction

<b>Conductor (coax):</b>	solid plain annealed copper conductor Cl. 1, 1x0,40 mm
<b>Conductor (power):</b>	stranded plain annealed copper conductor
<b>Insulation (power):</b>	PVC type Tl1
<b>Insulation (coax):</b>	PEE compound
<b>Colour cores (power):</b>	red + black
<b>Colour core (coaxial):</b>	natural
<b>Stranding:</b>	in layers
<b>Screen (power):</b>	aluminium/PET tape + tinned copper drain wire
<b>Screen (coaxial):</b>	aluminium/PET tape + tinned copper braid, 65% covering
<b>Outer sheath (coaxial):</b>	blue (similar RAL 5015) or black (similar RAL 9005), halogen-free compound, type M1
<b>Outer sheath:</b>	white (similar RAL 1013), PVC type TM2

## Technical data

<b>Nominal voltage <math>U_0/U</math>:</b>	300/500 V
<b>Test voltage:</b>	
<i>conductors:</i>	4 kV x 5 min
<i>sheath:</i>	5 kV x 5 min
<b>Temperature range:</b>	-10°C up to + 70°C
<b>Min. bending radius</b>	10 x d
<b>Conductor resistance (coax):</b>	Max. 140/42 Ohm/km
<b>Conductor resistance (power):</b>	
<i>0,50 sqmm:</i>	39 OHm/km at 20°C
<i>0,75 sqmm:</i>	26 OHm/km at 20°C
<i>1 sqmm:</i>	19,5 OHm/km at 20°C
<b>Impedance:</b>	75 ± 3 Ω
<b>Capacitance:</b>	52 pF/m +/-2
<b>Return loss dB:</b>	
<i>from 5 up to 70 MHz:</i>	max. 28
<i>from 470 up to 1000 MHz:</i>	max. 20
<i>from 1000 up to 3000 MHz:</i>	max. 16
<b>Propagation speed:</b>	85%

## Resistance

### Flame and fire retardant acc. to:

CEI 20-35, IEC 60332-1

CEI 20-22 II, IEC 60332-3

## Electrical Characteristics:

Frequency MHz	Attenuation dB/100 m
1	1,6
3,6	3,1
10	5
71,5	12,7
88,5	14,1
135	17,5
180	20,2
270	24,9
360	28,8
540	35,5
720	41,3
750	42
1000	48,9
1500	61,5
2250	80

## Features

insulation and jacket acc. to CEI 20-11

compound lead free acc. to CEI 20-52

acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Eca

classification (CEI UNEL 35016), EN 13501-6

suitable for installation in a single conduit or channel or bridge, without interposing separators, with cable system of Category I° marked "450/750" or "0,6/1 kV" (as required by CEI-UNEL 36762)

RoHS and CE approval



Part no.	Nominal cross-section no. of pairs x $\phi$ mm	Outer- $\phi$ ca.mm $\pm 10\%$	Copper weight kg/km	Cable weight approx. kg/km
86010DWM01BM01	1x0,14 + 2x0,5	6,2	11	57
86011DWM01BM01	1x0,14 + 2x0,75	6,5	16	63
86012DWM01BM01	1x0,14 + 2x1	7,5	21	76

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