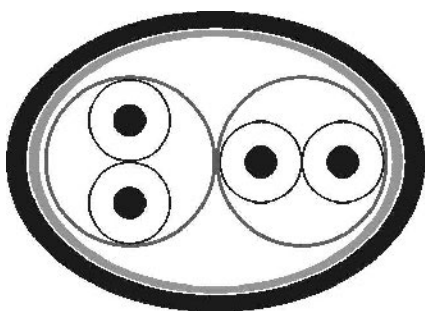


IBM P/N 33G2772, IBM P/N 33G8224, IBM P/N 33G2775



## Cable structure

Inner conductor diameter:  
Conductor material:  
Core insulation:  
Number of cores:  
Core colours:  
Screen over stranding element:

Screen over stranding 1:  
Screen over stranding 2:  
Outer sheath material:  
Cable dimensions:  
Outer sheath colour:

## IBM P/N 33G2772 type 1A

0,64 mm  
Copper, bare  
Foam-skin-PE  
4  
bk/og, rd/gn  
Polyester foil,  
aluminium-lined  
Cu braid, tinned  
-  
PVC  
approx. 7,6 mm x 11,9 mm  
Black

## IBM P/N 33G8224 type 1A mini

0,4 mm  
Copper, bare  
Foam-skin-PE  
4  
bk/og, rd/gn  
Polyester foil,  
aluminium-lined  
Cu braid, tinned  
-  
PVC  
approx. 5,5 mm x 8,9 mm  
Black

## IBM P/N 33G2775 type 6A

0,48 mm  
Copper, bare  
Foam-skin-PE  
4  
bk/og, rd/gn  
Polyester foil,  
aluminium-lined  
Cu braid, tinned  
-  
PVC  
approx. 7,8 mm  
Black

## Electrical data

Characteristic impedance:

150 Ohm  
± 15 ohm at 3 to 20 MHz  
185 Ohm  
± 18.5 ohm at 38.4 kHz  
270 Ohm  
± 27 ohm at 9.6 kHz  
57,1 Ohm/km  
78 %

150 Ohm  
± 15 ohm at 3 to 20 MHz  
235 Ohm  
± 23.5 ohm at 38.4 kHz  
390 Ohm  
± 39 ohm at 9.6 kHz  
151 Ohm/km  
78 %

150 Ohm  
± 15 ohm at 3 to 20 MHz  
235 Ohm  
± 35.25 ohm at 38.4 kHz  
390 Ohm  
± 58.5 ohm at 9.6 kHz  
151 Ohm/km  
-

Direct current resistance:  
Rel. propagation velocity:

## Typical values

Frequency (MHz)	20	100	20	100	20	100
Attenuation (dB/100m)	7,4	18,7	4,9	12,3	7,4	18,7
Next (db)	80,0	60,0	50,0	39,0	60,0	49,0

## Technical data

Weight:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper value:

85,0 kg/km  
110 mm  
-10°C  
+70°C  
1,7 MJ/m  
38,0 kg/km

60,0 kg/km  
84 mm  
-10°C  
+70°C  
0,68 MJ/m  
21,0 kg/km

70,0 kg/km  
117 mm  
-10°C  
+70°C  
0,78 MJ/m  
25,0 kg/km

## Application

HELUKABEL® IVS types are used in the area of the IVS system, developed by IBM. They correspond to the wiring guidelines set by IBM.

## Part no.

**80068**, IBM P/N 33G2772 type 1A

**80070**, IBM P/N 33G8224 type 1A mini

**80071**, IBM P/N 33G2775 type 6A