CERVICOM Profinet Cat.5e 2x2xAWG22/1
Cable Profinet for fixed installations

Construction

Conductor	Bare copper wire
	Diameter: 0,64mm
Insulation	Polyolefin
	Identification: White, Yellow, Blue, Orange
General assembly	Four insulated conductors laid up together as a star quad + plus polyester tape wrapping
Inner sheath	PVC
	Aprox. diameter: 3,9 mm
	Colour: Black
Overall screen	Aluminium/polyester tape +
	Tinned copper wire braid
	Coverage: 80% Min.
Outer sheath	PVC
	Colour: Green (RAL 6018) according to DESINA

Technical characteristics

Operating voltage	30 V
Test Voltage	700 v
Operating T^{a} (conductor)	-20°C +80°C (Use and installation)
Conductor resistance	60 Ohm/Km (Max. at 20°C)
Insulation resistance	500 MOhm*Km Min.
Nominal capacitance	56 pF/m (cond-cond)
Characteristic Impedance	100 ±15 Ohm
Transfer Impedance	20 mOhm/m Max.
Transmission speed	100 Mbit/s (Max. length 100m) ; 10 Mbit/s (Max. length 500m)
Min. bending radius	Fixed installation: 5xD

Application

Category 5e high-speed cable for Industrial Ethernet. Suitable for fixed installations (Type A), both dry and wet.

Standards

Ref. standard for drawing	UL 80°C 30C Style 2502 ; CSA AWM I/II A/B 80°C 30V
Flame Retardant	CEI 20-35 ; EN 50265 ; IEC 60332-1 ; UL VW-1 ; CSA FT1
Oil and hydrocarbon resistant	UL 1581; VDE 0472 p.803 A/B; HD 22.10 S1;CNOMO; E.03.40.150N
Water resistant	UL 1581 - IEC 60811

flame retardant · electromagnetic protection · hydrocarbon resistant · oil resistant · water resistant · DESINA · RoHS compliant

Code: 35100034
Family: 351
Revision: 1
Date: 20/08/2018

Realized:

Approved:

CERVICOM Profinet Cat.5e 2x2xAWG22/1
Cable Profinet for fixed installations

General data

Code	NxS (mm2)	Ø (mm)	Weight (kg/km)
35100034	2x2xAWG22	6.5	61

Legend

Code	Cervi codification
NxS (mm2)	Number of conductors x Section (mm2)
Ø (mm)	Aprox. outer diameter (mm)
Weight (kg/km)	Approximate cable weight (kg/km)

Electrical data

Frec.(MHz)	Aten.(**)	NEXT(*)	FEXT(*)
<0.256	1.3	-	-
<0.512	1.8	-	-
<0.772	2.2	67	66
1	2.4	65.3	63.8
4	4.9	56.3	51.7
10	7.8	50.3	43.8
16	9.9	47.3	39.7
20	11.1	45.8	37.7
31.25	14.1	42.9	33.9
62.5	20.5	38.4	27.8
100	26.5	35	23.8

Units: * = dB / ** = dB/100m

Frec.(MHz)	Frequency
Aten.(**)	attenuation
NEXT(*)	

Code: 35100034
Family: 351
Revision: 1
Date: 20/08/2018

Realized:

Approved: