



KITRONIC DNET

E 150633 AWM 2464 80°C 300V VW-1 c AWM I/II A/B 80°C 300V
FT1 **DeviceNet**. (Thick) 1P X 18AWG + 1P X 15AWG KWANGIL RoHS

Fine Conductor / Foamed PE & PVC Insulation / Braid Shielded

DeviceNet is a bus system developed by Allen Bradley (Rockwell Automation). These cables are used to interconnect various industrial devices, such as SPS controls or limit switches. The special characteristic of this bus system is that a data pair and a power supply pair are integrated in one cable. These cables with PVC sheath are designed for fixed installation.

Technical Data

Certification	DeviceNet ,		
Nominal Rating	80°C, 300V		
Spark Test Voltage	AC 500V		
Dielectric Test Voltage	AC 500V / 1 min		
Core/Core	AC 300V / 1 min		
Core/Screen	AC 300V / 1 min		
Conductor Resistance	Thick	18AWG	Max. 22.60 Ω/km
		15AWG	Max. 11.80 Ω/km
	Thin	24AWG	Max. 91.80 Ω/km
		22AWG	Max. 57.40 Ω/km
Insulation Resistance	Thick	18AWG	Min. 10,000 MΩ/km
		15AWG	Min. 100 MΩ/km
	Thin	24AWG	Min. 10,000 MΩ/km
		22AWG	Min. 100 MΩ/km
Mutual Capacitance	Max. 39.8 nF/m		
Characteristics impedance	120 ± 12 Ω		
Attenuation	Thick	125kHz	Max. 0.42 dB/100m
		500kHz	Max. 0.81 dB/100m
	Thin	125kHz	Max. 0.95 dB/100m
		500kHz	Max. 1.64 dB/100m
Toxicity	acc. to RoHS		
Fire performance	Flame retardant and self-extinguishing acc. to IEC 60332-1, EN 60332-1 VW-1 acc. to UL 1581 section 1080 FT1 acc. to UL 1581 section 1060		



Construction

Conductor	Tinned annealed copper standard acc. to IEC 60228 EN 60228, VDE 0295 Class 6
Insulation	18, 24AWG : Foamed Polyethylene compound 15, 22AWG : Special Poly Vinyl Chloride
Insulation	18, 24AWG : White, Blue 15, 22AWG : Black, Red
Filler	If necessary
Wrapping	Aluminium Mylar Foil Shield Tape
Drain Wire	Tinned annealed copper standard acc. to IEC 60228 EN 60228, VDE 0295 Class 5
Shield	Tinned copper wire Braid Shielded
Sheath	Special Poly Vinyl Chloride
Sheath Color	Gray

Outstanding Features

- Certified ODVA **DeviceNet**.
- Standard **DeviceNet**. Cable for data transmission
- Variations prepared to match various use environment
- Good EMC characteristics
- No toxicity
- No flame propagation
- Flame retardant and self-extinguishing

Type	No. of Cores x cross section (No. / mm ²)	Conductor diameter (mm)	Insulation diameter (mm)	Overall diameter (mm)
THICK	1 x 2 x 18	1.20	3.70	11.70
	1 x 2 x 15	1.70	2.90	
THIN	1 x 2 x 24	0.60	1.95	6.90
	1 x 2 x 22	0.80	1.50	