

24x2x18 AWG F/FTP + SWA 105°C Instrumentation Cable INSTRUMENTATION & SIGNAL P/N 8N8J024104

INDUSTRY

Applications

Process control industry, Hazardous areas, Harsh environments, Direct burial, Class 1 Division 2



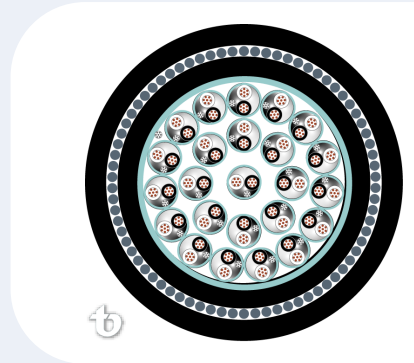
Outer Jacket Material
UV resistant FR-PVC



Outer diameter
34.4 mm nom.



Weight
2255 kg/km



General Construction

24 individually shielded twisted pairs are cabled together with a 22 AWG communication wire, overall foil shielded, inner jacketed, served with steel wire armor and jacketed.

The outer jacket is a humidity and UV resistant.

Blue jacket for intrinsically safe applications.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	18 (Class B)
Conductor Construction	7x0.40 mm
Insulation Material	FR-PVC -55°C to 105°C rating
Insulation Thickness (mm)	0.4
Insulation O.D. (mm nom)	2.0
Conductor Unit Identification	Numbered
Conductor Color Code	Black x White
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	100% Coverage
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Stranded
Drain-Wire 1 Size (AWG)	20
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	20

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Overall Drain-wire Construction	Stranded
Inner Jacket Material	UV resistant FR-PVC
Inner Jacket Thickness (mm nom)	1.8
Inner Jacket Diameter (mm nom)	27.0
Armoring	Served Galvanized Steel Wire
Total Number Of Conductors	48
Rip-Cord	Yes
Outer Diameter (mm nom)	34.4
Outer Jacket Thickness (mm nom)	1.8
Outer Jacket Color	Blue
Marking	Per request
Outer Jacket Material	UV resistant FR-PVC

Performance

Max. DC Resistance (Ω /km@20°C)	22.0
Capacitance (pF/m)	165
L/R Ratio(mH/ Ω)	15
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Min. Insulation Resistance (M Ω •km)	200
Voltage Rating (V)	300
Max Pulling Tension (kgF)	1800
Min. Bend Radius (mm)	360
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+105
UV Resistance	Yes
Rodent Resistance	Yes

Standards

Flammability Rating
IEC 60332-3
IEEE 383

Applicable Standards
UL PLTC
UL 2250 Instrumentation Tray
Cable (ITC) - UL Certified
UL 13 Power Limited Circuit/Tray
Cable (PLTC, CL2, CL3) - UL
Certified
RoHS 3 2015/863/EU



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