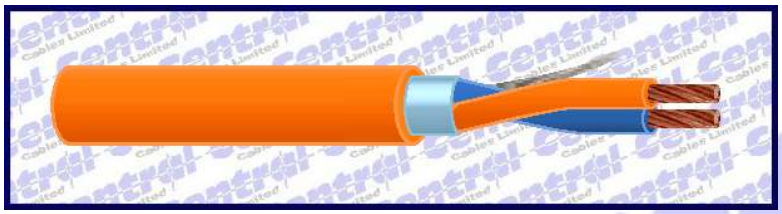
Foundation Fieldbus 1 pair type A, type B or high-speed



These cables are primarily designed for use in process automation industries such as chemical, food, oil, gas, paper, metals and minerals.

Type A can also be known as Profibus PA.

The PE version is suitable for use in ducts, LSZH provides increased safety in the case of fire and SWA is suitable for direct burial applications.

Multi pair versions may be available in some types.

Construction

solid or stranded tinned or plain copper conductors with coloured insulation, material varies

2x cores twisted into 1x pair

collective aluminium/polyester foil tape (CAT) screen with either drain wire or overall tinned copper wire braid (TCWB) screen

orange, blue or black outer sheath, material varies

Technical

conductor sizes:	type A = 18AWG solid (1x1.02mm) or stranded (7x0.40mm)
	type B & hi-speed = 22AWG stranded (7x0.25mm)
voltage rating:	300V or 600V, please check if critical
characteristic impedance:	type A = 100 Ohms, others = 150 Ohms
operating temperature :	usually -20°C to +70°C, please check if critical
based on Belden no:	type A = 3076F
	type B = 3077F
	high-speed = 3078F
core identification:	coloured blue & orange

Cable Type	Screen Type	Armour &/or Sheath	Outer Colour	Diameter (mm)	Weight (kg/km)
Type A	CAT	PVC	Blue or Orange	7.4	51
Type A	CAT	LSZH	Blue or Orange	7.4	51
Type A	CAT	SWA+PE	Black	11.2	221
Type A	CAT	SWA+LSZH	Blk, Blu or Org	11.2	221
Type A	CAT+TCWB	PVC	Blue or Orange	8.0	75
Type A	CAT+TCWB	LSZH	Blue or Orange	8.0	75
Type A	CAT+TCWB	Duct Grade PE	Black	9.6	91
Type A	CAT+TCWB	SWA+PE	Black	12.4	283
Type A	CAT+TCWB	SWA+LSZH	Blk, Blu or Org	12.4	283

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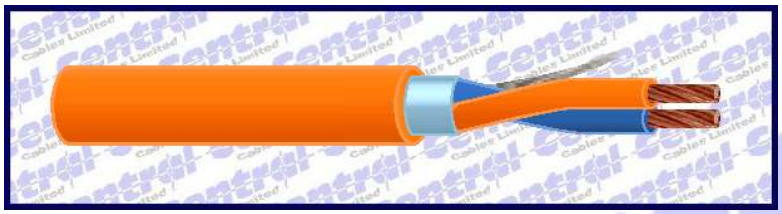

Cable Type	Screen Type	Armour &/or Sheath	Outer Colour	Diameter (mm)	Weight (kg/km)
Type B	CAT	PVC	Orange	4.9	29
Type B	CAT	LSZH	Orange	4.9	29
Type B	CAT	SWA+PE	Black	8.1	213
High-speed	CAT	PVC	Orange	9.4	65
High-speed	CAT	LSZH	Orange	9.4	665
High-speed	CAT	SWA+PE	Black	12.6	287

PE (polyethylene) Properties: this tough compound has good resistance to UV, abrasion, tearing and organic solvents plus good electrical properties. It has excellent resistance to water, inorganic salts, acids and alkalis.

PVC or LSZH Properties: fairly tough & flexible materials resistant to a wide range of oils & chemicals. The primary difference between them is the levels of toxic chemicals produced in the case of a fire.

Standard polyvinylchloride (PVC) will emit around 28% HCL (hydrogen chloride) if burnt.

Low smoke zero halogen/halogen free (LSZH, LSOH, LSHF) guarantees max. 0.5% HCL emissions if burnt.

BM/FE/BT