



These screened bus cables are available as data cables with 3 pairs only or as composite cables with 3 data pairs plus an additional 3 power cores designed for remote applications. Both options are available in standard or superfine stranding.

Unlike traditional ring systems Interbus uses one cable to route data back and forth to all devices, each device or unit will amplify the signal before sending it on to the next station.

### Construction

- stranded plain copper conductors
- polyethylene (PE) core insulation
- 24AWG data cores twisted into pairs
- 18AWG power cores (if included)
- overall polyester tape & plain copper wire braid
- green or violet sheath polyvinylchloride (PVC) or polyurethane (PUR) outer sheath

### Technical

voltage rating:	300v operating
impedance:	100 Ohms nominal (data pairs)
capacitance:	51pF/m core to shield (data pairs)
velocity of propagation:	66% (data pairs)
temperature range:	-30°C to +70°C static -5°C to +50°C flexing
core identification:	brown & white, green & yellow, pink & grey power cores red, blue & green (if included)

Cable Type & Sheath Material	Conductor Stranding		Cable Overall	
	Data (mm)	Power (mm)	Diameter (mm)	Weight (kg/km)
3 Pair PVC Violet	7x 0.20	n/a	7.4	68
3 Pair PVC Green	7x 0.20	n/a	7.4	68
3 Pair External PVC Black	7x 0.20	n/a	8.6	93
3 Pair Hi-flex PUR Violet	32x 0.10	n/a	7.8	70
3 Pair Hi-flex PUR Green	32x 0.10	n/a	7.8	70



Cable Type & Sheath Material	Conductor Stranding		Cable Overall	
	Data (mm)	Power (mm)	Diameter (mm)	Weight (kg/km)
3 Pair + 3 Core External PVC Black	7x 0.20	19x 0.26	9.4	128
3 Pair + 3 Core Hi-flex PUR Violet	32x 0.10	56x0.15	8.7	96
3 Pair + 3 Core Hi-flex PUR Green	32x 0.10	56x0.15	8.7	96

**PUR Properties:** UV resistant, inflammable material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids and alkalis and no resistance to organic solvents. PUR (Polyurethane) is also halogen free so will produce less than 0.5% HCL (hydrogen chloride) if burnt.

**PVC properties:** fairly tough & flexible material with fair abrasive resistance, good resistance to water, aqueous salt solutions, acids and alkalis, moderate/poor resistance against organic solvents and oils. Oil resistant PVC (polyvinylchloride) is commonly available.

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