



BESS COMMUNICATION AND MONITORING CABLE

IEC 61158

9 orderable sizes

STANDARD IEC 61158	VOLTAGE CLASS Signal circuit	CONDUCTOR Tinned copper data conductor
INSULATION / JACKET PE jacket		

Construction

- 1 ■ **Conductor (per core)** – Flexible copper conductor · 24 × Ø0.2 mm · IEC 60228 cl.5
- 2 ■ **Pair insulation** – PE, foam PE or LSZH data insulation
- 3 ■ **Filler** – Bedding / filler
- 4 ■ **Sheath** – LSZH, PUR or PE jacket

Size selection — all available cross-sections

Cable reference	System position	Voltage class	Current guide	Conductor size	Polarity / ID	Environment
BESS Monitoring Data Signal circuit 1 pair 0.5 mm² Pair color ID	Monitoring and communication	Signal circuit	3 A layout-dependent	0.5 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 1 pair 0.75 mm² Pair color ID	Monitoring and communication	Signal circuit	4 A layout-dependent	0.75 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 1 pair 1.0 mm² Pair color ID	Monitoring and communication	Signal circuit	5 A layout-dependent	1.0 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 2 pair 0.5 mm² Pair color ID	Monitoring and communication	Signal circuit	3 A layout-dependent	0.5 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 2 pair 0.75 mm² Pair color ID	Monitoring and communication	Signal circuit	4 A layout-dependent	0.75 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty

Cable reference	System position	Voltage class	Current guide	Conductor size	Polarity / ID	Environment
BESS Monitoring Data Signal circuit 2 pair 1.0 mm² Pair color ID	Monitoring and communication	Signal circuit	5 A layout-dependent	1.0 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 4 pair 0.5 mm² Pair color ID	Monitoring and communication	Signal circuit	3 A layout-dependent	0.5 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 4 pair 0.75 mm² Pair color ID	Monitoring and communication	Signal circuit	4 A layout-dependent	0.75 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty
BESS Monitoring Data Signal circuit 4 pair 1.0 mm² Pair color ID	Monitoring and communication	Signal circuit	5 A layout-dependent	1.0 mm ²	Pair color ID	CAN, RS-485, sensor and monitoring network duty

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