

# How To...

G00018\_Issue 1

## Choose the Correct Cable for your TDSi System

The following tables show the recommended cable types that should be used when making connections to our **EX series** access control systems.

<b>EX series</b>				
	<b>Part No</b>	<b>Cable Type</b>	<b>Cores</b>	<b>Maximum Distance</b>
Analogue IR Reader <sup>1</sup>	5002-0024 5002-0035	Belden 9729	4	140m
		Belden 9730	4	100m
		Belden 9503	4	60m
		OS6C24/Alpha 5096/BICC H8124	4	40m
		Screened Alarm Cable	8	30m
Magnetic Stripe Reader	5002-0360	Belden 9730	6	60m
		Belden 9503	6	25m
		OS6C24/Alpha 5096/BICC H8124	6	20m
		Screened Alarm Cable	8	Up to 30m
EXprox / EXprox2	5002-0354 5002-0355	Belden 9730	6	150m
		Belden 9503	6	150m
		OS6C24/Alpha 5096/BICC H8124	6	150m
		Screened Alarm Cable	8	150m
Optica	5002-0390 5002-0391	Belden 9730	6	150m
		Belden 9503	6	150m
		OS6C24/Alpha 5096/BICC H8124	6	150m
		Screened Alarm Cable	8	150m
Digital IR	5002-1781 5002-1791	Belden 9730	6	150m
		Belden 9503	6	150m
		OS6C24/Alpha 5096/BICC H8124	6	150m
		Screened Alarm Cable	8	150m
MIFARE / EXsmart2	5002-0433 5002-0434 5002-0435 5002-0436 5002-0440 5002-0441 5002-0442	Belden 9730	6	150m
		Belden 9503	6	150m
		OS6C24/Alpha 5096/BICC H8124	6	150m
		Screened Alarm Cable	8	150m

## EX series

	Part №	Cable Type	Cores	Maximum Distance
DIGIgarde / DIGIgarde Smart / PALMgarde	5002-0450	Belden 9730	6	150m
	5002-0451	Belden 9503	6	150m
	5002-0460	OS6C24/Alpha 5096/BICC H8124	6	150m
		Screened Alarm Cable	8	150m
Indala Proximity Reader	5002-0133	Belden 9730	6	150 m
	5002-0137	Belden 9503	6	60 m
	5002-0217	OS6C24/Alpha 5096/BICC H8124	6	60 m
	5002-0218	Screened Alarm Cable	8	Up to 30m
Dataline Keypad	5002-0286	Belden 9729	4	140m
	5002-0315	FBOS2P24	4	100m
	5002-0316	OS2P22/Alpha 5902/Belden 9502	4	60m
		OS4C24/Alpha 5094/BICC H8123	4	40m
RS-232 Communications		7/0.2 mm 3- core screened cable	3	15m
RS-485 <sup>2</sup> Communications		Belden 9729	4	See note 1
		FBOS2P24	4	
		OS2P22/Alpha 5902/Belden 9502	4	
		OS4C24/Alpha 5094/BICC H8123	4	
		Screened Alarm Cable	8	
Inputs		7/0.2mm (screened)	2	300m
Relays		7/0.2mm or 16/0.2mm (screened)	2	Dependant on load and cable choice

<sup>1</sup> Not on EXcel4.

<sup>2</sup> Dependant on the converter and cable type used. When using an EX9520R converter or USB to serial converter configured to 2-wire mode, a maximum cable length of 500m is possible. Use of an MA45 converter or USB to serial converter configured for 4-wire mode will allow distances of up to a maximum of 1200 m to be achieved.