Cable Selection

Cable Drawing: DR1-E48xxx EtherCAT通讯型

📌 Note: The lengths of UVW and encoder cables are only available in 10cm and 20cm.

Accessory Functional Specification Sheet						
Line Length	**Interface Number**	**Description**	**Cable Quantity**	**Accessory Specifications**	**Accessory Ordering Encoding**	**Remarks**
UVW 10cm	Motor	Motor power cable	UVW has a total of 3 cables	Cable Assembly - DR Series - U Phase Cable - 10cm - AWG12*1 Core Cable - Cut	15310177	28A peak and below (2.5 square cable)
	Motor	Motor power cable		Cable Assembly - DR Series - Phase V Cable - 10cm - AWG12*1 Core Cable - Cut	15310178	
	Motor	Motor power cable		Cable Assembly - DR Series - W Phase Cable - 10cm - AWG12*1 Core Cable - Cut	15310179	
UVW 20cm	Motor	Motor power cable		Cable Assembly - DR Series - U Phase Cable - 20cm - AWG12*1 Core Cable - Cut	15310180	
	Motor	Motor power cable		Cable Assembly - DR Series - V Phase Cable - 20cm - AWG12*1 Core Cable - Cut	15310181	
	Motor	Motor power cable		Cable Assembly - DR Series - W Phase Cable - 20cm - AWG12*1 Core Cable - Cut	15310182	
Encoder 10cm	J12	Encoder 1	The encoder has a total of 2 cables	Cable Assembly - DR Series - Encoder 1 Cable - 10cm - AWG28*20 Core Cable - Cut	15310183	
	J4	Encoder 2		Cable Assembly - DR Series - Encoder 2 Cable - 10cm - AWG28*20 Core Cable - Cut	15310185	
Encoder 20cm	J12	Encoder 1		Cable Assembly - DR Series - Encoder 1 Cable - 20cm - AWG28*20 Core Cable - Cut	15310184	
	J4	Encoder 2		Cable Assembly - DR Series - Encoder 2 Cable - 20cm - AWG28*20 Core Cable - Cut	15310186	
0.5m	J2	Control Signal	1	Cable Assembly - DR Series - 20P IO Cable - 0.5m - AWG28*20 Core Cable - Cut	15310212	
	J1/J6	EtherCAT	1	Cable Assembly - DR Series - ECAT Cable - 0.5m - Standard Category 5e Ethernet Cable - Cut	15310217	
			1	Cable Assembly - DR Series - ECAT Cascade Cable - 0.5m - Standard Category 5e Ethernet Cable	15310556	
	J10	Debug Interface & Expand 485 communication	1	Cable Assembly - DR Series - 485 Debugging Cable - 0.5m - AWG28*7 Core Cable - Cut	15310222	
	J8	NTC	1	Cable Assembly - DR Series - NTC Cable - 0.5m - AWG28*2 Core Cable - Cut	15310202	
	J3	STO & Brake	1	Cable Assembly - DR Series - STO, Brake Cable - 0.5m - AWG28*10 Core Cable - Cut	15310207	
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC+ - 0.5m - AWG12*1 Core Cable - Cut	15310187	28A peak and below (2.5 square
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC - -0.5m - AWG12*1 Core Cable - Cut	15310188	

						cable)
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - PE - 0.5m - AWG12*1 Core Cable - Cut	15310189	
1m	J2	Control Signal	1	Cable Assembly - DR Series - 20P IO Cable - 1m - AWG28 * 20 Core Cable - Cut	15310213	
	J1/J6	EtherCAT	1	Cable Assembly - DR Series - ECAT Cable - 1m - Standard Category 5e Ethernet Cable - Cut	15310218	
			1	Cable Assembly - DR Series - ECAT Cascade Cable - 1m - Standard Category 5e Ethernet Cable	15310275	
	J10	Debug Interface & Expand 485 communication	1	Cable Assembly - DR Series - 485 Debugging Cable - 1m - AWG28*7 Core Cable - Cut	15310223	
	J8	NTC	1	Cable Assembly - DR Series - NTC Cable - 1m - AWG28*2 Core Cable - Cut	15310203	
	J3	STO & Brake	1	Cable Assembly - DR Series - STO, Brake Cable - 1m - AWG28*10 Core Cable - Cut	15310208	
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC+ - 1m - AWG12*1 Core Cable - Cut	15310190	28A peak and below (2.5 square cable)
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC - -1m - AWG12*1 Core Cable - Cut	15310191	
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - PE - 1m - AWG12*1 Core Cable - Cut	15310192	
2m	J2	Control Signal	1	Cable Assembly - DR Series - 20P IO Cable - 2m - AWG28*20 Core Cable - Cut	15310214	
	J1/J6	EtherCAT	1	Cable Assembly - DR Series - ECAT Cable - 2m - Standard Category 5e Ethernet Cable - Cut	15310219	
			1	Cable Assembly - DR Series - ECAT Cascade Cable - 2m - Standard Category 5e Ethernet Cable	15310555	
	J10	Debug Interface & Expand 485 communication	1	Cable Assembly - DR Series - 485 Debugging Cable - 2m - AWG28*7 Core Cable - Cut	15310224	
	J8	NTC	1	Cable Assembly - DR Series - NTC Cable - 2m - AWG28*2 Core Cable - Cut	15310204	
	J3	STO & Brake	1	Cable Assembly - DR Series - STO, Brake Cable - 2m - AWG28*10 Core Cable - Cut	15310209	
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC+ - 2m - AWG12*1 Core Cable - Cut	15310193	28A peak and below (2.5 square
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC - -2m - AWG12*1 Core Cable - Cut	15310194	

	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - PE - 2m - AWG12*1 Core Cable - Cut	15310195	cable)
3m	J2	Control Signal	1	Cable Assembly - DR Series - 20P IO Cable - 3m - AWG28*20 Core Cable - Cut	15310215	
	J1/J6	EtherCAT	1	Cable Assembly - DR Series - ECAT Cable - 3m - Standard Category 5e Ethernet Cable - Cut	15310220	
			1	Cable Assembly - DR Series - ECAT Cascade Cable - 3m - Standard Category 5e Ethernet Cable	15310276	
	J10	Debug Interface & Expand 485 communication	1	Cable Assembly - DR Series - 485 Debugging Cable - 3m - AWG28*7 Core Cable - Cut	15310225	
	J8	NTC	1	Cable Assembly - DR Series - NTC Cable - 3m - AWG28*2 Core Cable - Cut	15310205	
	J3	STO & Brake	1	Cable Assembly - DR Series - STO, Brake Cable - 3m - AWG28*10 Core Cable - Cut	15310210	
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC+ - 3m - AWG12*1 Core Cable - Cut	15310196	28A peak

> 💡 If you need to make your own cable, the terminal model of the driver board end can be found in the 接线指导 document. Please strictly compare the terminal pin instructions in the document and wire correctly.

5m	J2	Signal	1	5m - AWG28*20 Core Cable - Cut	15310216	
	J1/J6	EtherCAT	1	Cable Assembly - DR Series - ECAT Cable - 5m - Standard Category 5e Ethernet Cable - Cut	15310221	
			1	Cable Assembly - DR Series - ECAT Cascade Cable - 5m - Standard Category 5e Ethernet Cable	15310277	
	J10	Debug Interface & Expand 485 communication	1	Cable Assembly - DR Series - 485 Debugging Cable - 5m - AWG28*7 Core Cable - Cut	15310226	
	J8	NTC	1	Cable Assembly - DR Series - NTC Cable - 5m - AWG28*2 Core Cable - Cut	15310206	
	J3	STO & Brake	1	Cable Assembly - DR Series - STO, Brake Cable - 5m - AWG28*10 Core Cable - Cut	15310211	
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC+ - 5m - AWG12*1 Core Cable - Cut	15310199	28A peak and below (2.5 square
	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - DC - -5m - AWG12*1 Core Cable - Cut	15310200	

	Power	Power Supply	1	Cable Assembly - DR Series - Power Cable - PE - 5m - AWG12*1 Core Cable - Cut	15310201	cable)