

# COMPACT



stay connected



## Standard Colors

- Yellow
- Gray
- Black

## Cable Types

- PVC
- PUR/PVC
- PUR
- Robotic
- TPE

## Styles

- Unshielded
- Shielded
- Fieldbus

## BULK CABLE

### A GUIDE TO MURRELEKTRONIK'S OFFERINGS

In addition to our cordsets, Murrelektronik offers a wide variety of UL listed bulk sensor and actuator, power and network cable on 100 or 500m spools. Choose from different jacket materials, colors and cross sections to get the right cable for your application.

Cable Properties

Material	PVC (Type 1)	PUR/PVC (Type 2)	PUR (Type 3)	PUR (Type 5)	TPE
UL AWM	2464 80C 300V	20549 80C 300V	20549 80C 300V	21198 80C 300V	22 AWG: 20626 90C 300V 18 AWG: 20626 90C 600V
Styles	VW1 / FT1	FT2	VW1 / FT1	FT2	ITC / PLTC 105C FT4
Flex Rating		2 million	10 million	10 million	10 million
Torsion Rating			±180	±360	3 million @ ±180
Temp Range (Flex)		-5 to 80°C (23 to 176°F)	-25 to 80°C (-13 to 176°F)	-25 to 90°C (-13 to 194°F)	-20 to 90°C (-4 to 194°F)
Temp Range (Fixed)	-30 to 80°C (-22 to 176°F)	-30 to 80°C (-22 to 176°F)	-40 to 80°C (-40 to 176°F)	-40 to 90°C (-40 to 194°F)	-40 to 105°C (-40 to 221°F)



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4319 S. National Ave.  
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**ST. LOUIS, MO**  
2021 Congressional Dr.  
St. Louis, MO 63146  
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**BLOOMINGTON, IL**  
1701 Empire St.  
Bloomington, IL 61704  
217.615.4440

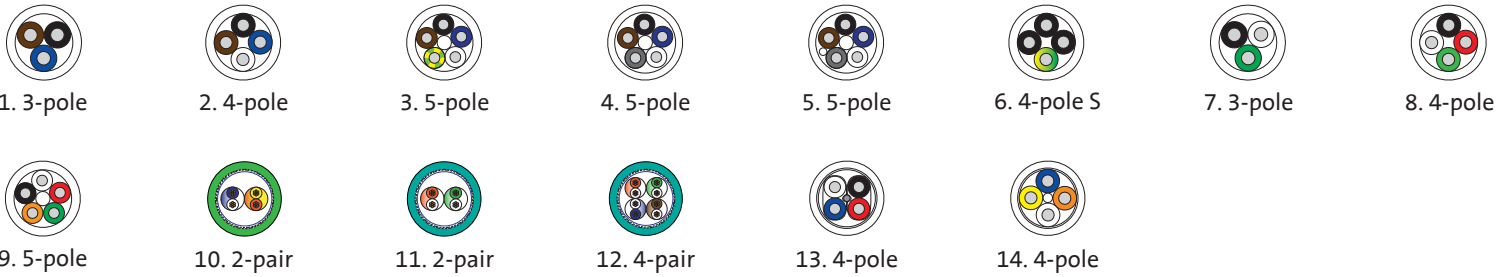
## BUILD YOUR ARTICLE NUMBER



Article Number from the table  
C0101 or C0201 = 100m Spool or C0505 = 500m Spool

Cable Code  
from the table

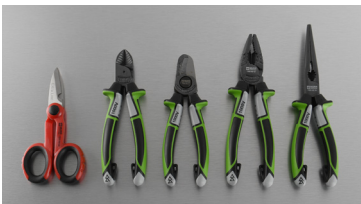
## CABLE DIAGRAMS



Sensor Cables										
Wire Gage	Cable Type	Poles	Jacket Color	Article Number	Cable Code	Diagram #	Flex/ Torsion	Oil Resistant	UV Resistant	Weld Slag
24AWG	PVC	3	Yellow	7000-C0101/C0505	010	1	Static			
			Grey		210					
			Black		610					
		4	Yellow		011	2				
			Grey		211					
			Black		611					
	PUR/PVC	3	Yellow		020	1	2 mil	X		
			Grey		220			X		
			Black		620			X		
		4	Yellow		021	2		X		
			Grey		221			X		
			Black		621			X		
	PUR	3	Yellow		030	1	10 mil/ ±180°	X	X	
			Grey		230			X	X	
			Black		630			X	X	
		4	Yellow		031	2		X	X	
			Grey		231			X	X	
			Black		631			X	X	
	PUR Weld Spark	3	Yellow		050	1	10 mil/ ±360°	X	X	X
			Grey		250			X	X	X
			Black		650			X	X	X
		4	Yellow		051	2		X	X	X
			Grey		251			X	X	X
			Black		651			X	X	X

Sensor Cables

Wire Gage	Cable Type	Poles	Jacket Color	Article Number	Cable Code	Diagram #	Flex/ Torsion	Oil Resistant	UV Resistant	Weld Slag			
22AWG	PVC	3	Yellow	7000-C0101/C0505	013	1	Static						
			Grey		213								
			Black		613								
		4	Yellow		014	2							
			Grey		214								
			Black		614								
		5	Yellow		015	3							
			Grey		215								
			Black		615								
	PUR/PVC	3	Yellow		023	1	2 mil	X					
			Grey		223			X					
			Black		623			X					
		4	Yellow		024	2		X					
			Grey		224			X					
			Black		624			X					
		5	Yellow		025	3		X					
			Grey		225			X					
			Black		625			X					
	PUR	3	Yellow		033	1	10 mil/ ±180°	X	X				
			Grey		233			X	X				
			Black		633			X	X				
		4	Yellow		034	2		X	X				
			Grey		234			X	X				
			Black		634			X	X				
		5	Yellow		035	3		X	X				
			Grey		235			X	X				
			Black		635			X	X				
		732				4		X	X				
			PUR Weld Spark		3	Yellow		053	1	10 mil/ ±360°	X	X	X
						Grey		253			X	X	X
	Black	653				X	X	X					
	4	Yellow			054	2	X	X	X				
		Grey			254		X	X	X				
		Black			654		X	X	X				
	5	Yellow	055		3	X	X	X					
		Grey	255			X	X	X					
		Black	655			X	X	X					
	TPE	3	Yellow		7700-C0101/C0505	U03	1	10 mil/ 3 mil @ ±180°	X	X	X		
			Grey			U04	2		X	X	X		
		4	Yellow			U24			3	X	X	X	
			Grey			U05	X			X	X		
		5	Grey			U25	X		X	X			



We have compiled an assortment of tools that are ideal for working with our cables and connectors. The MURR Tools lineup has everything you need to make a fast and easy connection.

Cable Shears  
Cable Cutter  
Pliers

Art. No. 7000-98100-0000000  
Art. No. 7000-98131-0000000  
Art. No. 7000-98141-0000000

Stripping Tool  
Crimper  
Stripping Pliers

Art. No. 7000-98201-0000000  
Art. No. 7000-98401-0000000  
Art. No. 7000-98301-0000000

Sensor Cables										
Wire Gage	Cable Type	Poles	Jacket Color	Article Number	Cable Code	Diagram #	Flex/ Torsion	Oil Resistant	UV Resistant	Weld Slag
18AWG	TPE	4	Yellow	7700-C0101/C0505	150	2	10 mil/ 3 mil @ ±180°	X	X	X
			Black		U67			X	X	X
		5	Yellow		161	3		X	X	X
			Black		162	4		X	X	X
					U68	3		X	X	X
			U98		4	X		X	X	
16AWG		3	Yellow	7700-C0101/C0705	U1B	7	2 mil	X	X	X
			Red		U5B			X	X	X
		4	Yellow		U0C	2		X	X	X
					U1C	8		X	X	X
		5			U0D	4		X	X	X
					U1D	9		X	X	X
14AWG	4	Black		7700-C0705	U0N	2	X	X	X	
		U9N			6	X	X	X		
	5	Yellow	U0P		4	X	X	X		

Shielded Sensor Cables										
Wire Gage	Cable Type	Poles	Jacket Color	Article Number	Cable Code	Diagram #	Flex/ Torsion	Oil Resistant	UV Resistant	Weld Slag
22AWG	PVC	4	Grey	7000-C0201/C0505	330	2	Static			
		5			348	3				
				7700-C0201/C0505	SD5	5				
	PUR/PVC	4		7000-C0201/C0505	331	2	2 mil	X		
		5			349	3		X		
	18AWG	TPE		4	7700-C0201/C0505	S24	2	10 mil/ 3 mil @ ±180°	X	X
S27			X			X			X	

Fieldbus Cables										
Protocol	Cable Type	Poles	Jacket Color	Article Number	Cable Code	Diagram #	Shielded	Flex/ Torsion	Oil & UV Resistant	Weld Slag
DeviceNET	PUR	2x22+2x- 24AWG	Violet	7000-C0201/C0505	803	13	X	10 mil/ ±180°	X	
ProfiNet		1x4x22AWG	Green		794	14	X		X	
		2x2x22AWG			796		X		X	
Ethernet	TPE	2x2x24AWG		Teal	7700-C0201/C0505	S7V	10	X	10 mil ±360°	X
			Blue	S4U		11		X		X
				Orange			U4U	UEU		URU
		4x2x24AWG	Teal	S4W			12	X		X
				U4W		X		X		X

## M8 CONNECTORS - Field Wireable, IDC



Art. Number	7000-08331-0000000	7000-08351-0000000	7000-08371-0000000	7000-08391-0000000
# of Poles	3-pole	4-pole	3-pole	4-pole
Pin Diagram				
Type	Male		Female	
Cross Section	.14 - .34mm <sup>2</sup>			
Core Diameter	1.0 - 1.6mm			
Cable Diameter	2.5 - 5.1mm			

## M12 CONNECTORS - Field Wireable, IDC



Art. Number	7000-12481-0000000	7000-12601-0000000	7000-12561-0000000	7000-12681-0000000
# of Poles	4-pole	4-pole	4-pole	4-pole
Pin Diagram				
Type	Male	Female	Male	Female
Outer Wire Dia.	1.2 - 1.6mm			
Outer Cable Dia.	4 - 5.1mm			

## M12 CONNECTORS - Field Wireable, Screw Terminal



Art. Number	7000-12701-0000000	7000-12721-0000000	7000-17301-0000000	7000-12901-0000000	7000-12921-0000000	7000-17321-0000000
# of Poles	4	5	8	4	5	8
Pin Diagram						
Type	Male			Female		
Cross Section	Max. .75mm <sup>2</sup>		Max. .5mm <sup>2</sup>	Max. .75mm <sup>2</sup>		Max. .5mm <sup>2</sup>
Outer Cable Dia.	4 - 6mm		6 - 8mm	4 - 6mm		6 - 8mm



Art. Number	7000-12821-0000000	7000-12841-0000000	7000-12981-0000000	7000-13001-0000000
# of Poles	4	5	4	5
Pin Diagram				
Type	Male		Female	
Cross Section	Max. .75mm <sup>2</sup>			
Outer Cable Dia.	4 - 6mm			

Additional field wireable options available upon request. Ask your representative for more information.