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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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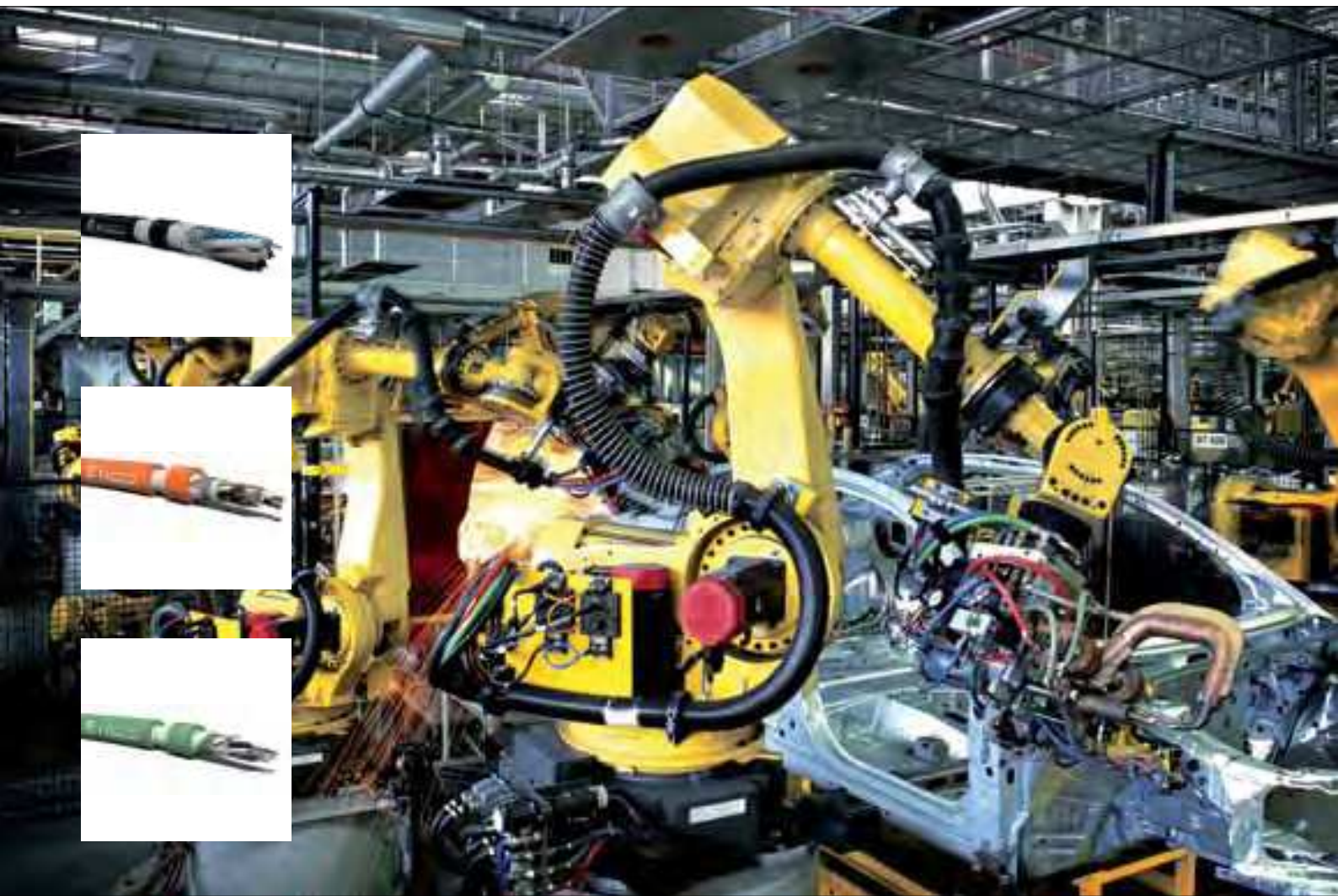
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FLAMAR STANDARD CABLES > FOR INDUSTRIAL AUTOMATION



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Packaging 83

Legend

- 
Oil Resistant
- 
Suitable for Drag Chain
- 
Halogen-Free
- 
Flame Resistant

The background of the top section is a photograph of an industrial factory floor. It features several large, yellow robotic arms (likely KUKA) in various positions, some holding cables or components. The scene is filled with industrial machinery, pipes, and structural elements, creating a complex and busy environment.

**OUR PROVEN EXPERIENCE IN
CABLE MANUFACTURING >
ASSURES EXCELLENT PERFORMANCE,
QUALITY AND DURABILITY IN THE
INDUSTRIAL SECTOR**

Flamar was founded in 1975 and over the years has developed a significant know-how in the design and manufacturing of cables for Industrial Automation.

The company is equipped with state-of-the-art extrusion lines and back-torsion cabling machines which are essential to meet top quality expectations of key market players. The internal Reliability & Testing Laboratory performs mechanical, electrical, flame resistance, drag chain tests and validates new cable developments in compliance with many agency approvals.



Industrial Automation cables for machine builder application

Flamar, a Molex company since 2014, proposes a brand-new set of cables designed to cover the broadest range of applications for machine builders and system integrators:

- **Signal & Control**
to connect sensors, actuators, valves, control cabinets and distribution boxes
- **Servo Motor**
for power and encoder/resolver connection
- **Network**
for I/O modules and connection to PLC
- **Hybrid**
composite multicore cables whenever an extremely compact solution is required



Signal & Control

Series	Environment	Installation	Halogen Free	Temperature Rating °C (flexible installation)		Voltage Rating V	Bending Radius (flex. install. at 20°C)
155210	Standard	Flexible	No	+5°C	+80°C	300V	> 15xOD
155211	Standard	Flexible	No	+5°C	+80°C	300V	> 15xOD
155220	Severe	Drag Chain	No	-25°C	+80°C	600V	> 7,5xOD
155221	Severe	Drag Chain	No	-25°C	+80°C	600V	> 7,5xOD
155230	Harsh	Drag Chain	Yes	-40°C	+80°C	1000V	> 7,5xOD
155231	Harsh	Drag Chain	Yes	-40°C	+80°C	1000V	> 7,5xOD
155240	Severe	Drag Chain	No	-40°C	+105°C	300V	> 10xOD
155241	Severe	Drag Chain	No	-40°C	+105°C	300V	> 10xOD

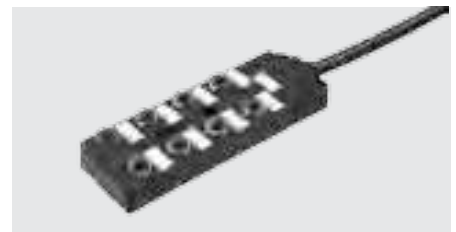
Typical Applications



Sensors



Actuators, valves,
control cabinets



Distribution Boxes

Jacket choice criteria

- PVC: The most cost-effective solution for flexible and static installation.
- WSOR: Weld-Slag and Oil-Resistant Cable, a single-cable solution designed to withstand the severe environments found in automotive and industrial factory floors. Suitable for drag chain applications.
- PUR (Polyurethane): Ensures top mechanical performance, withstands harsh environments, abrasion resistant. Suitable for drag chain applications
- TPE: Cables defined according to the US/Canadian market requirements (UL «PLTC»). Suitable for drag chain application.

Selecting the right cable for your application is very important to ensure a reliable, problem-free installation. Careful consideration of mechanical abrasion, fluid/chemical exposure, flexibility (C-track, torsion), temperature resistance and flame retardancy requirements is required to select the cable that will provide performance and reliability in service.



Flamar Cables for Signal & Control Applications

Jacket Material	Shielded	Approval	Flame Resistance	Oil & Lubricants Resistance	Abrasion Resistance	Page No.
PVC	No	UL AWM 2464 / CSA	Good	Limited	Limited	8
PVC	Yes	UL AWM 2464 / CSA	Good	Limited	Limited	18
WSOR	No	UL AWM 21215 / CSA	Good	Good	Medium	20
WSOR	Yes	UL AWM 21215 / CSA	Good	Good	Medium	30
PUR	No	UL AWM 21223 / CSA	Good	Excellent	Excellent	32
PUR	Yes	UL AWM 21223 / CSA	Good	Excellent	Excellent	42
TPE	No	UL Listed PLTC	Excellent	Good	Medium	44
TPE	Yes	UL Listed PLTC	Excellent	Good	Medium	52



Cables with PVC jacket, suitable for flexible installation in standard environments.

Typically used for sensors (position, pressure, temperature, motion...) and optical switches in combination with M8 and M12 connectors.

Flamar Signal & Control

155210 Sensor Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Specifications

Application: Standard Environment
Installation: Flexible
Halogen Free: No
Temp. rating (flexible installation):
+5°C/+80°C
Voltage rating: 300V
Bending radius (flex. install. at 20°C):
> 15xOD
Insulation material: TPE
Jacket material: PVC

Shielded: No
Approval: UL AWM 2464 / CSA
Marking: acc. to UL/CSA
Silicone, Pb,Cd,Hg & FCKW free: Yes
Flame resistance:
Good (VW1/FT1 & IEC60332-1)
Key factor:
Cost-effective solution for less
demanding environments (limited
exposure to oil and lubricants)

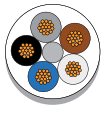



Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging Size	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,25	24	3	4,5	Black	S	3x200m	155210-0001	
					M	1x800m	155210-0002	
					L	1x1500m	155210-0003	
				Grey	S	3x200m	155210-0004	
					M	1x800m	155210-0005	
					L	1x1500m	155210-0006	
				Yellow	S	3x200m	155210-0007	
					M	1x800m	155210-0008	
					L	1x1500m	155210-0009	
				Orange	S	3x200m	155210-0010	
					M	1x800m	155210-0011	
					L	1x1500m	155210-0012	
	4	4,8	4	Black	S	3x200m	155210-0013	
					M	1x800m	155210-0014	
					L	1x1500m	155210-0015	
				Grey	S	3x200m	155210-0016	
					M	1x800m	155210-0017	
					L	1x1500m	155210-0018	
				Yellow	S	3x200m	155210-0019	
					M	1x800m	155210-0020	
					L	1x1500m	155210-0021	
				Orange	S	3x200m	155210-0022	
					M	1x800m	155210-0023	
					L	1x1500m	155210-0024	
5	5,3	5	Black	S	3x200m	155210-0025		
				M	1x800m	155210-0026		
				L	1x1500m	155210-0027		
			Grey	S	3x200m	155210-0028		
				M	1x800m	155210-0029		
				L	1x1500m	155210-0030		
			Yellow	S	3x200m	155210-0031		
				M	1x800m	155210-0032		
				L	1x1500m	155210-0033		

155210 Sensor Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging Size	Packaging Composition	Standard Order No	Sketch	
mm ²	AWG								
0,25	24	8	6,4	Black	S	3x100m	155210-0034		
					M	1x500m	155210-0035		
					L	1x1000m	155210-0036		
				Grey	S	3x100m	155210-0037		
					M	1x500m	155210-0038		
					L	1x1000m	155210-0039		
	Yellow	S	3x100m	155210-0040					
		M	1x500m	155210-0041					
		L	1x1000m	155210-0042					
	12	6,9	12	6,9	Black	S	3x100m	155210-0043	
						M	1x500m	155210-0044	
						L	1x1000m	155210-0045	
Grey					S	3x100m	155210-0046		
					M	1x500m	155210-0047		
					L	1x1000m	155210-0048		
Yellow	S	3x100m	155210-0049						
	M	1x500m	155210-0050						
	L	1x1000m	155210-0051						
0,34	22	3	4,8	Black	S	3x200m	155210-0052		
					M	1x800m	155210-0053		
					L	1x1500m	155210-0054		
				Grey	S	3x200m	155210-0055		
					M	1x800m	155210-0056		
					L	1x1500m	155210-0057		
				Yellow	S	3x200m	155210-0058		
					M	1x800m	155210-0059		
					L	1x1500m	155210-0060		
	Orange	S	3x200m	155210-0061					
		M	1x800m	155210-0062					
		L	1x1500m	155210-0063					
	4	5,1	4	5,1	Black	S	3x200m	155210-0064	
						M	1x800m	155210-0065	
						L	1x1500m	155210-0066	
Grey					S	3x200m	155210-0067		
					M	1x800m	155210-0068		
					L	1x1500m	155210-0069		
Yellow	S	3x200m	155210-0070						
	M	1x800m	155210-0071						
	L	1x1500m	155210-0072						
Orange	S	3x200m	155210-0073						
	M	1x800m	155210-0074						
	L	1x1500m	155210-0075						

155210 Sensor Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging Size	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,34	22	5	5,5	Black	S	3x200m	155210-0076	
					M	1x800m	155210-0077	
					L	1x1500m	155210-0078	
				Grey	S	3x200m	155210-0079	
					M	1x800m	155210-0080	
					L	1x1500m	155210-0081	
				Yellow	S	3x200m	155210-0082	
					M	1x800m	155210-0083	
					L	1x1500m	155210-0084	
				Orange	S	3x200m	155210-0085	
					M	1x800m	155210-0086	
					L	1x1500m	155210-0087	
		5	5,5	Black	S	3x200m	155210-0088	
					M	1x800m	155210-0089	
					L	1x1500m	155210-0090	
				Grey	S	3x200m	155210-0091	
					M	1x800m	155210-0092	
					L	1x1500m	155210-0093	
				Yellow	S	3x200m	155210-0094	
					M	1x800m	155210-0095	
Orange	S	3x200m	155210-0096					
	M	1x800m	155210-0097					
	L	1x1500m	155210-0098					
					L	1x1500m	155210-0099	

Related Products

Field Attachable Connectors



120091 – Brad® Nano-Change® (M8)
Field Attachable Connectors



120071 – Brad® Micro-Change® (M12)
Field Attachable Connector



120085 – Brad® Ultra-Lock® (M12)
Field Attachable Connectors

Overmolded Connectors



120027, 120028, 120086, 120087 –
Brad® Nano-Change® (M8)
Single-Ended and Double Ended Cordsets



120006 – Brad® Micro-Change® (M12)
Single-Ended Cordsets

120009 – Brad® Micro-Change® (M12)
Cordsets with Knurled Hexnuts



120065, 120066 – Brad® Micro-Push® (M12)
Single-Ended and Double Ended Cordsets

**Cables with PVC jacket, suitable for flexible installation in standard environments.
The right choice for actuators (valves, slides, cylinders...) and control cabinets in combination with DIN, M16, M23 or heavy duty connectors.**

155210 Control Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V








Specifications

Application: Standard environment
Installation: Flexible
Halogen Free: No
Temp. rating (flexible installation):
+5°C/+80°C
Voltage rating: 300V
Bending radius (flex. install. at 20°C):
> 15xOD
Insulation material: TPE
Jacket material: PVC

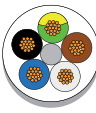
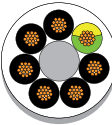
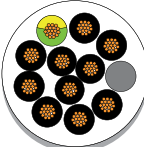
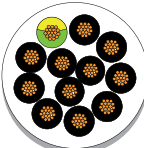
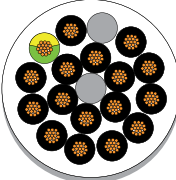
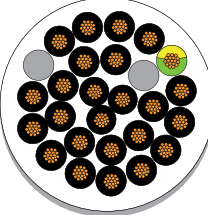
Shielded: No
Approval: UL AWM 2464 / CSA
Marking: acc. to UL/CSA
Silicone, Pb,Cd,Hg & FCKW free: Yes
Flame resistance:
Good (VW1/FT1 & IEC60332-1)
Key factor:
Cost-effective solution for less demanding environments (limited exposure to oil and lubricants)



Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,5	21	2	5,2	Black	S	3x200m	155210-0100	
					M	1x800m	155210-0101	
					L	1x1500m	155210-0102	
				Grey	S	3x200m	155210-0103	
					M	1x800m	155210-0104	
					L	1x1500m	155210-0105	
		3	5,6	Black	S	3x100m	155210-0106	
					M	1x500m	155210-0107	
					L	1x1000m	155210-0108	
				Grey	S	3x100m	155210-0109	
					M	1x500m	155210-0110	
					L	1x1000m	155210-0111	
				Orange	S	3x100m	155210-0112	
					M	1x500m	155210-0113	
					L	1x1000m	155210-0114	
		4	5,9	Black	S	3x100m	155210-0115	
					M	1x500m	155210-0116	
					L	1x1000m	155210-0117	
				Grey	S	3x100m	155210-0118	
					M	1x500m	155210-0119	
					L	1x1000m	155210-0120	
		5	6,2	Black	S	3x100m	155210-0121	
					M	1x500m	155210-0122	
					L	1x1000m	155210-0123	
Grey	S			3x100m	155210-0124			
	M			1x500m	155210-0125			
	L			1x1000m	155210-0126			
12	8,7	Black	S	1x200m	155210-0127			
			M	1x500m	155210-0128			
			L	1x1000m	155210-0129			
		Grey	S	1x200m	155210-0130			
			M	1x500m	155210-0131			
			L	1x1000m	155210-0132			

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,75	19	2	6,0	Black	S	3x100m	155210-0133	
					M	1x500m	155210-0134	
					L	1x1000m	155210-0135	
				Grey	S	3x100m	155210-0136	
					M	1x500m	155210-0137	
					L	1x1000m	155210-0138	
		3	6,4	Black	S	3x100m	155210-0139	
					M	1x500m	155210-0140	
					L	1x1000m	155210-0141	
				Grey	S	3x100m	155210-0142	
					M	1x500m	155210-0143	
					L	1x1000m	155210-0144	
		4	7,0	Black	S	3x100m	155210-0145	
					M	1x500m	155210-0146	
					L	1x1000m	155210-0147	
Grey	S			3x100m	155210-0148			
	M			1x500m	155210-0149			
	L			1x1000m	155210-0150			
5	7,5	Black	S	3x100m	155210-0151			
			M	1x500m	155210-0152			
			L	1x1000m	155210-0153			
		Grey	S	3x100m	155210-0154			
			M	1x500m	155210-0155			
			L	1x1000m	155210-0156			
1,00	18	2	6,7	Black	S	3x100m	155210-0157	
					M	1x500m	155210-0158	
					L	1x1000m	155210-0159	
				Grey	S	3x100m	155210-0160	
					M	1x500m	155210-0161	
					L	1x1000m	155210-0162	
		3	7,1	Black	S	3x100m	155210-0163	
					M	1x500m	155210-0164	
					L	1x1000m	155210-0165	
				Grey	S	3x100m	155210-0166	
					M	1x500m	155210-0167	
					L	1x1000m	155210-0168	
		4	7,6	Black	S	3x100m	155210-0169	
					M	1x500m	155210-0170	
					L	1x1000m	155210-0171	
				Grey	S	3x100m	155210-0172	
					M	1x500m	155210-0173	
					L	1x1000m	155210-0174	

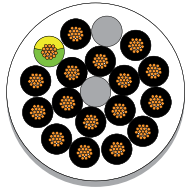
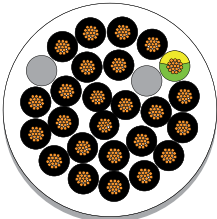




155210 Control Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
1,0	18	5	8,3	Black	S	1x200m	155210-0175	
					M	1x500m	155210-0176	
					L	1x1000m	155210-0177	
				Grey	S	1x200m	155210-0178	
					M	1x500m	155210-0179	
					L	1x1000m	155210-0180	
		7	9,6	Black	S	1x200m	155210-0181	
					M	1x500m	155210-0182	
					L	1x1000m	155210-0183	
				Grey	S	1x200m	155210-0184	
					M	1x500m	155210-0185	
					L	1x1000m	155210-0186	
		11	11,5	Black	S	1x100m	155210-0187	
					M	1x500m	155210-0188	
					L	1x1000m	155210-0189	
				Grey	S	1x100m	155210-0190	
					M	1x500m	155210-0191	
					L	1x1000m	155210-0192	
		12	11,5	Black	S	1x100m	155210-0193	
					M	1x500m	155210-0194	
					L	1x1000m	155210-0195	
				Grey	S	1x100m	155210-0196	
					M	1x500m	155210-0197	
					L	1x1000m	155210-0198	
17	13,4	Black	S	1x100m	155210-0199			
			M	1x500m	155210-0200			
			L	1x1000m	155210-0201			
		Grey	S	1x100m	155210-0202			
			M	1x500m	155210-0203			
			L	1x1000m	155210-0204			
25	16,0	Black	S	1x100m	155210-0205			
			M	1x250m	155210-0206			
			L	1x500m	155210-0207			
		Grey	S	1x100m	155210-0208			
			M	1x250m	155210-0209			
			L	1x500m	155210-0210			

155210 Control Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
1,5	16	2	7,1	Black	S	3x100m	155210-0211	
					M	1x500m	155210-0212	
					L	1x1000m	155210-0213	
				Grey	S	3x100m	155210-0214	
					M	1x500m	155210-0215	
					L	1x1000m	155210-0216	
		3	7,3	Black	S	3x100m	155210-0217	
					M	1x500m	155210-0218	
					L	1x1000m	155210-0219	
				Grey	S	3x100m	155210-0220	
					M	1x500m	155210-0221	
					L	1x1000m	155210-0222	
		4	7,9	Black	S	3x100m	155210-0223	
					M	1x500m	155210-0224	
					L	1x1000m	155210-0225	
				Grey	S	3x100m	155210-0226	
					M	1x500m	155210-0227	
					L	1x1000m	155210-0228	
		4	7,9	Black	S	3x100m	155210-0229	
					M	1x500m	155210-0230	
					L	1x1000m	155210-0231	
				Grey	S	3x100m	155210-0232	
					M	1x500m	155210-0233	
					L	1x1000m	155210-0234	
		5	8,6	Black	S	1x200m	155210-0235	
					M	1x500m	155210-0236	
					L	1x1000m	155210-0237	
				Grey	S	1x200m	155210-0238	
M	1x500m				155210-0239			
L	1x1000m				155210-0240			
7	10,5	Black	S	1x100m	155210-0241			
			M	1x500m	155210-0242			
			L	1x1000m	155210-0243			
		Grey	S	1x100m	155210-0244			
			M	1x500m	155210-0245			
			L	1x1000m	155210-0246			
11	12,7	Black	S	1x100m	155210-0247			
			M	1x500m	155210-0248			
			L	1x1000m	155210-0249			
		Grey	S	1x100m	155210-0250			
			M	1x500m	155210-0251			
			L	1x1000m	155210-0252			
12	12,7	Black	S	1x100m	155210-0253			
			M	1x500m	155210-0254			
			L	1x1000m	155210-0255			
		Grey	S	1x100m	155210-0256			
			M	1x500m	155210-0257			
			L	1x1000m	155210-0258			

155210 Control Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
1,5	16	17	14,7	Black	S	1x100m	155210-0259	
					M	1x500m	155210-0260	
					L	1x1000m	155210-0261	
				Grey	S	1x100m	155210-0262	
					M	1x500m	155210-0263	
					L	1x1000m	155210-0264	
	25	17,7	Black	S	1x100m	155210-0265		
				M	1x250m	155210-0266		
				L	1x500m	155210-0267		
			Grey	S	1x100m	155210-0268		
				M	1x250m	155210-0269		
				L	1x500m	155210-0270		
2,5	14	2	8,8	Black	S	1x200m	155210-0271	
					M	1x500m	155210-0272	
					L	1x1000m	155210-0273	
				Grey	S	1x200m	155210-0274	
					M	1x500m	155210-0275	
					L	1x1000m	155210-0276	
		3	9,3	Black	S	1x200m	155210-0277	
					M	1x500m	155210-0278	
					L	1x1000m	155210-0279	
				Grey	S	1x200m	155210-0280	
					M	1x500m	155210-0281	
					L	1x1000m	155210-0282	
	4	10,1	Black	S	1x100m	155210-0283		
				M	1x500m	155210-0284		
				L	1x1000m	155210-0285		
			Grey	S	1x100m	155210-0286		
				M	1x500m	155210-0287		
				L	1x1000m	155210-0288		
	5	11,3	Black	S	1x100m	155210-0289		
				M	1x500m	155210-0290		
				L	1x1000m	155210-0291		
			Grey	S	1x100m	155210-0292		
				M	1x500m	155210-0293		
				L	1x1000m	155210-0294		

155210 Control Cables
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
2,5	14	7	13,3	Black	S	1x100m	155210-0295	
					M	1x500m	155210-0296	
					L	1x1000m	155210-0297	
				Grey	S	1x100m	155210-0298	
					M	1x500m	155210-0299	
					L	1x1000m	155210-0300	
		11	15,7	Black	S	1x100m	155210-0301	
					M	1x250m	155210-0302	
					L	1x500m	155210-0303	
				Grey	S	1x100m	155210-0304	
					M	1x250m	155210-0305	
					L	1x500m	155210-0306	
		12	15,9	Black	S	1x100m	155210-0307	
					M	1x250m	155210-0308	
					L	1x500m	155210-0309	
				Grey	S	1x100m	155210-0310	
					M	1x250m	155210-0311	
					L	1x500m	155210-0312	
		17	18,5	Black	S	1x100m	155210-0313	
					M	1x250m	155210-0314	
L	1x500m				155210-0315			
Grey	S			1x100m	155210-0316			
	M			1x250m	155210-0317			
	L			1x500m	155210-0318			
25	22,3	Black	S	1x350m	155210-0319			
			Grey	S	1x350m		155210-0322	

Related Products

Field Attachable Connectors



121201, 121207 – Brad® mPm® DIN Valve Connectors, Form A, External Thread

121202, 121208 – Brad® mPm® DIN Valve Connector, Form B - Industrial, External Thread

121205, 121211 – Brad® mPm® DIN Valve Connector, Form C - Industrial, External Thread



120071 – Brad® Micro-Change® (M12) Field Attachable Connectors

Field Attachable Connectors



120085 – Brad® Ultra-Lock® (M12) Field Attachable Connectors

93601 - GWconnect® Heavy Duty Connectors

Overmolded Connectors



120094 – Brad® M23 Single-Ended Cordsets

**Cables with PVC jacket, suitable for flexible installation in standard environments.
Select this cable for distribution boxes ("MPIS") and safety barriers in combination with M23 signal connectors.**

155210 Distribution Boxes
Flexible Installation
PVC Jacket
Unshielded
+5°C/+80°C 300V

Specifications

Application: Standard environment

Installation: Flexible

Halogen Free: No

Temp. rating (flexible installation):
+5°C/+80°C

Voltage rating: 300V

Bending radius (flex. install. at 20°C):
> 15xOD

Insulation material: TPE

Jacket material: PVC

Shielded: No

Approval: UL AWM 2464 / CSA

Marking: acc. to UL/CSA

Silicone, Pb,Cd,Hg & FCKW free: Yes

Flame resistance:

Good (VW1/FT1 & IEC60332-1)

Key factor:

Cost-effective solution for less demanding environments (limited exposure to oil and lubricants)



Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
3x0,75 + 4x0,34	3x AWG 19 + 4x AWG 22	7 (3+4)	7,8	Black	S	3x100m	155210-9001	
					M	1x500m	155210-9002	
					L	1x1000m	155210-9003	
				Grey	S	3x100m	155210-9004	
					M	1x500m	155210-9005	
					L	1x1000m	155210-9006	
3x0,75 + 6x0,34	3x AWG 19 + 6x AWG 22	9 (3+6)	8,5	Black	S	1x200m	155210-9007	
					M	1x500m	155210-9008	
					L	1x1000m	155210-9009	
				Grey	S	1x200m	155210-9010	
					M	1x500m	155210-9011	
					L	1x1000m	155210-9012	
3x0,75 + 8x0,34	3x AWG 19 + 8x AWG 22	11 (3+8)	8,5	Black	S	1x200m	155210-9013	
					M	1x500m	155210-9014	
					L	1x1000m	155210-9015	
				Grey	S	1x200m	155210-9016	
					M	1x500m	155210-9017	
					L	1x1000m	155210-9018	
3x0,75 + 16x0,34	3x AWG 19 + 16x AWG 22	19 (3+16)	10,2	Black	S	1x100m	155210-9019	
					M	1x500m	155210-9020	
					L	1x1000m	155210-9021	
				Grey	S	1x100m	155210-9022	
					M	1x500m	155210-9023	
					L	1x1000m	155210-9024	

Related Products

Field Attachable Connectors



120230 – Brad® M23 Signal Connectors

120233 – Brad® M23 Power Connectors

Overmolded Connectors



120094 – Brad® M23
Single-Ended Cordsets

Cables with PVC jacket, suitable for flexible installation in standard environments.

Shielded cable for sensors (position, pressure, temperature, motion...) and optical switches in combination with M8 and M12 connectors.

155211 Sensor Cables
Flexible Installation
PVC Jacket
Shielded
+5°C/+80°C 300V

Specifications


Application: Standard environment
Installation: Flexible
Halogen Free: No
Temp. rating (flexible installation):
+5°C/+80°C
Voltage rating: 300V
Bending radius (flex. install. at 20°C):
> 15xOD
Insulation material: TPE
Jacket material: PVC

Shielded: Yes
Approval: UL AWM 2464 / CSA
Marking: acc. to UL/CSA
Silicone, Pb,Cd,Hg & FCKW free: Yes
Flame resistance:
Good (VW1/FT1 & IEC60332-1)
Key factor:
Cost-effective solution for less demanding environments (limited exposure to oil and lubricants)



Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,34	22	3	5,4	Black	S	3x200m	155211-0001	
					M	1x800m	155211-0002	
					L	1x1500m	155211-0003	
				Grey	S	3x200m	155211-0004	
					M	1x800m	155211-0005	
					L	1x1500m	155211-0006	
				Yellow	S	3x200m	155211-0007	
					M	1x800m	155211-0008	
					L	1x1500m	155211-0009	
				Orange	S	3x200m	155211-0010	
					M	1x800m	155211-0011	
					L	1x1500m	155211-0012	
0,34	22	4	5,7	Black	S	3x100m	155211-0013	
					M	1x500m	155211-0014	
					L	1x1000m	155211-0015	
				Grey	S	3x100m	155211-0016	
					M	1x500m	155211-0017	
					L	1x1000m	155211-0018	
				Yellow	S	3x100m	155211-0019	
					M	1x500m	155211-0020	
					L	1x1000m	155211-0021	
				Orange	S	3x100m	155211-0022	
					M	1x500m	155211-0023	
					L	1x1000m	155211-0024	
0,34	22	5	6,1	Black	S	3x100m	155211-0025	
					M	1x500m	155211-0026	
					L	1x1000m	155211-0027	
				Grey	S	3x100m	155211-0028	
					M	1x500m	155211-0029	
					L	1x1000m	155211-0030	
				Yellow	S	3x100m	155211-0031	
					M	1x500m	155211-0032	
					L	1x1000m	155211-0033	
				Orange	S	3x100m	155211-0034	
					M	1x500m	155211-0035	
					L	1x1000m	155211-0036	

155211 Sensor Cables
Flexible Installation
PVC Jacket
Shielded
+5°C/+80°C 300V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,34	22	5	6,1	Black	S	3x100m	155211-0037	
					M	1x500m	155211-0038	
					L	1x1000m	155211-0039	
				Grey	S	3x100m	155211-0040	
					M	1x500m	155211-0041	
					L	1x1000m	155211-0042	
				Yellow	S	3x100m	155211-0043	
					M	1x500m	155211-0044	
					L	1x1000m	155211-0045	
				Orange	S	3x100m	155211-0046	
					M	1x500m	155211-0047	
					L	1x1000m	155211-0048	

Related Products

Field Attachable Connectors



120091 – Brad® Nano-Change® (M8)
Field Attachable Connectors



120071 – Brad® Micro-Change® (M12)
Field Attachable Connectors



120085 – Brad® Ultra-Lock® (M12)
Field Attachable Connectors

Overmolded Connectors



120027, 120028, 120086, 120087 –
Brad® Nano-Change® (M8)
Single-Ended and Double Ended Cordsets



120006, 12009 – Brad® Micro-Change® (M12)
Single-Ended and Double Ended Cordsets



120065, 120066 – Brad® Micro-Push® (M12)
Single-Ended and Double Ended Cordsets

Cables with Weld-Slag and Oil-Resistant "WSOR" jacket cover the broadest range of industrial applications, allowing the reduction of inventory costs. Suitable for drag chain applications. Typically used for sensors (position, pressure, temperature, motion...) and optical switches in combination with M8 and M12 connectors.

155220 Sensor Cables
Drag Chain Installation
WSOR Jacket
Unshielded
-25°C/+80°C 600V

Specifications

Application: Severe environment
Installation: Drag Chain
Halogen Free: No
Temp. rating (flexible installation):
-25°C/+80°C
Voltage rating: 600V
Bending radius (flex. install. at 20°C):
> 7,5xOD
Insulation material: TPE
Jacket material: WSOR

Shielded: No
Approval: UL AWM 21215 / CSA
Marking: acc. to UL/CSA
Silicone, Pb,Cd,Hg & FCKW free: Yes
Flame resistance:
Good (VW1/FT1 & IEC60332-1)
Key factor:
Weld-Slag and Oil-Resistant. A single cable solution for automotive lines and industrial applications.

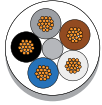



Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,25	24	3	4,5	Black	S	3x200m	155220-0001	
					M	1x800m	155220-0002	
					L	1x1500m	155220-0003	
				Grey	S	3x200m	155220-0004	
					M	1x800m	155220-0005	
					L	1x1500m	155220-0006	
		Yellow	S	3x200m	155220-0007			
			M	1x800m	155220-0008			
			L	1x1500m	155220-0009			
			Orange	S	3x200m	155220-0010		
				M	1x800m	155220-0011		
				L	1x1500m	155220-0012		
	4	4,8		Black	S	3x200m	155220-0013	
					M	1x800m	155220-0014	
					L	1x1500m	155220-0015	
			Grey	S	3x200m	155220-0016		
				M	1x800m	155220-0017		
				L	1x1500m	155220-0018		
		Yellow	S	3x200m	155220-0019			
			M	1x800m	155220-0020			
			L	1x1500m	155220-0021			
			Orange	S	3x200m	155220-0022		
				M	1x800m	155220-0023		
				L	1x1500m	155220-0024		
5	5,3	Black		S	3x200m	155220-0025		
				M	1x800m	155220-0026		
				L	1x1500m	155220-0027		
		Grey	S	3x200m	155220-0028			
			M	1x800m	155220-0029			
			L	1x1500m	155220-0030			
	Yellow	S	3x200m	155220-0031				
		M	1x800m	155220-0032				
		L	1x1500m	155220-0033				

155220 Sensor Cables
 Drag Chain Installation
 WSOR Jacket
 Unshielded
 -25°C/+80°C 600V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch	
mm ²	AWG								
0,25	24	8	6,4	Black	S	3x100m	155220-0034		
					M	1x500m	155220-0035		
					L	1x1000m	155220-0036		
				Grey	S	3x100m	155220-0037		
					M	1x500m	155220-0038		
					L	1x1000m	155220-0039		
		Yellow	S	3x100m	155220-0040				
			M	1x500m	155220-0041				
			L	1x1000m	155220-0042				
		12	6,9	Black	S	3x100m	155220-0043		
					M	1x500m	155220-0044		
					L	1x1000m	155220-0045		
	Grey			S	3x100m	155220-0046			
				M	1x500m	155220-0047			
				L	1x1000m	155220-0048			
	Yellow	S	3x100m	155220-0049					
		M	1x500m	155220-0050					
		L	1x1000m	155220-0051					
0,34	22	3	4,8	Black	S	3x200m	155220-0052		
					M	1x800m	155220-0053		
					L	1x1500m	155220-0054		
				Grey	S	3x200m	155220-0055		
					M	1x800m	155220-0056		
					L	1x1500m	155220-0057		
		Yellow	S	3x200m	155220-0058				
			M	1x800m	155220-0059				
			L	1x1500m	155220-0060				
		Orange	S	3x200m	155220-0061				
			M	1x800m	155220-0062				
			L	1x1500m	155220-0063				
	4	5,1	Black	S	3x200m	155220-0064			
				M	1x800m	155220-0065			
				L	1x1500m	155220-0066			
			Grey	S	3x200m	155220-0067			
				M	1x800m	155220-0068			
				L	1x1500m	155220-0069			
			Yellow	S	3x200m	155220-0070			
				M	1x800m	155220-0071			
				L	1x1500m	155220-0072			
			Orange	S	3x200m	155220-0073			
				M	1x800m	155220-0074			
				L	1x1500m	155220-0075			

155220 Sensor Cables
 Drag Chain Installation
 WSOR Jacket
 Unshielded
 -25°C/+80°C 600V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch	
mm ²	AWG								
0,34	22	5	5,5	Black	S	3x200m	155220-0076		
					M	1x800m	155220-0077		
					L	1x1500m	155220-0078		
				Grey	S	3x200m	155220-0079		
					M	1x800m	155220-0080		
					L	1x1500m	155220-0081		
				Yellow	S	3x200m	155220-0082		
					M	1x800m	155220-0083		
					L	1x1500m	155220-0084		
				Orange	S	3x200m	155220-0085		
					M	1x800m	155220-0086		
					L	1x1500m	155220-0087		
				Black	S	3x200m	155220-0088		
					M	1x800m	155220-0089		
					L	1x1500m	155220-0090		
					Grey	S	3x200m		155220-0091
						M	1x800m		155220-0092
						L	1x1500m		155220-0093
					Yellow	S	3x200m		155220-0094
						M	1x800m		155220-0095
						L	1x1500m		155220-0096
					Orange	S	3x200m		155220-0097
						M	1x800m		155220-0098
						L	1x1500m		155220-0099

Related Products

Field Attachable Connectors



120091 – Brad® Nano-Change® (M8)
Field Attachable Connectors



120071 – Brad® Micro-Change® (M12)
Field Attachable Connectors



120085 – Brad® Ultra-Lock® (M12)
Field Attachable Connectors

Overmolded Connectors



120027, 120028, 120086, 120087 –
Brad® Nano-Change® (M8)
Single-Ended and Double Ended Cordsets



120006 – Brad® Micro-Change® (M12)
Single-Ended and Double Ended Cordsets

120009 – Brad® Micro-Change®
M12 Cordsets with Knurled Hexnuts



120065, 120066 – Brad® Micro-Push® (M12)
Single-Ended and Double Ended Cordsets

Cables with Weld-Slag and Oil-Resistant "WSOR" jacket cover the broadest range of industrial applications, allowing the reduction of inventory costs. Suitable for drag chain applications. The right choice for actuators (valves, slides, cylinders...) and control cabinets in combination with DIN, M16, M23 or heavy duty connectors.

155220 Control Cables
Drag Chain Installation
WSOR Jacket
Unshielded
-25°C/+80°C 600V






Specifications

Application: Severe environment
Installation: Drag Chain
Halogen Free: No
Temp. rating (flexible installation):
-25°C/+80°C
Voltage rating: 600V
Bending radius (flex. install. at 20°C):
> 7,5xOD
Insulation material: TPE
Jacket material: WSOR

Shielded: No
Approval: UL AWM 21215 / CSA
Marking: acc. to UL/CSA
Silicone, Pb,Cd,Hg & FCKW free: Yes
Flame resistance:
Good (VW1/FT1 & IEC60332-1)
Key factor:
Weld-Slag and Oil-Resistant. A single cable solution for automotive lines and industrial applications.



Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,5	21	2	5,2	Black	S	3x200m	155220-0100	
					M	1x800m	155220-0101	
					L	1x1500m	155220-0102	
				Grey	S	3x200m	155220-0103	
					M	1x800m	155220-0104	
					L	1x1500m	155220-0105	
		3	5,6	Black	S	3x100m	155220-0106	
					M	1x500m	155220-0107	
					L	1x1000m	155220-0108	
				Grey	S	3x100m	155220-0109	
					M	1x500m	155220-0110	
					L	1x1000m	155220-0111	
		4	5,9	Orange	S	3x100m	155220-0112	
					M	1x500m	155220-0113	
					L	1x1000m	155220-0114	
				Black	S	3x100m	155220-0115	
					M	1x500m	155220-0116	
					L	1x1000m	155220-0117	
		5	6,2	Grey	S	3x100m	155220-0118	
					M	1x500m	155220-0119	
					L	1x1000m	155220-0120	
				Black	S	3x100m	155220-0121	
					M	1x500m	155220-0122	
					L	1x1000m	155220-0123	
12	8,7	Black	S	3x100m	155220-0124			
			M	1x500m	155220-0125			
			L	1x1000m	155220-0126			
		Grey	S	1x200m	155220-0127			
			M	1x500m	155220-0128			
			L	1x1000m	155220-0129			
Black	S	1x200m	155220-0130					
	M	1x500m	155220-0131					
	L	1x1000m	155220-0132					

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
0,75	19	2	6,0	Black	S	3x100m	155220-0133	
					M	1x500m	155220-0134	
					L	1x1000m	155220-0135	
				Grey	S	3x100m	155220-0136	
					M	1x500m	155220-0137	
					L	1x1000m	155220-0138	
		3	6,4	Black	S	3x100m	155220-0139	
					M	1x500m	155220-0140	
					L	1x1000m	155220-0141	
				Grey	S	3x100m	155220-0142	
					M	1x500m	155220-0143	
					L	1x1000m	155220-0144	
		4	7,0	Black	S	3x100m	155220-0145	
					M	1x500m	155220-0146	
					L	1x1000m	155220-0147	
Grey	S			3x100m	155220-0148			
	M			1x500m	155220-0149			
	L			1x1000m	155220-0150			
5	7,5	Black	S	3x100m	155220-0151			
			M	1x500m	155220-0152			
			L	1x1000m	155220-0153			
		Grey	S	3x100m	155220-0154			
			M	1x500m	155220-0155			
			L	1x1000m	155220-0156			
1,00	18	2	6,7	Black	S	3x100m	155220-0157	
					M	1x500m	155220-0158	
					L	1x1000m	155220-0159	
				Grey	S	3x100m	155220-0160	
					M	1x500m	155220-0161	
					L	1x1000m	155220-0162	
		3	7,1	Black	S	3x100m	155220-0163	
					M	1x500m	155220-0164	
					L	1x1000m	155220-0165	
				Grey	S	3x100m	155220-0166	
					M	1x500m	155220-0167	
					L	1x1000m	155220-0168	
		4	7,6	Black	S	3x100m	155220-0169	
					M	1x500m	155220-0170	
					L	1x1000m	155220-0171	
				Grey	S	3x100m	155220-0172	
					M	1x500m	155220-0173	
					L	1x1000m	155220-0174	
5	8,3	Black	S	1x200m	155220-0175			
			M	1x500m	155220-0176			
			L	1x1000m	155220-0177			
		Grey	S	1x200m	155220-0178			
			M	1x500m	155220-0179			
			L	1x1000m	155220-0180			

155220 Control Cables
 Drag Chain Installation
 WSOR Jacket
 Unshielded
 -25°C/+80°C 600V

Cross Section		No. of Circuits	Diameter in mm	Jacket Color	Packaging	Packaging Composition	Standard Order No	Sketch
mm ²	AWG							
1,00	18	7	9,6	Black	S	1x200m	155220-0181	
					M	1x500m	155220-0182	
					L	1x1000m	155220-0183	
				Grey	S	1x200m	155220-0184	
					M	1x500m	155220-0185	
					L	1x1000m	155220-0186	
		11	11,5	Black	S	1x100m	155220-0187	
					M	1x500m	155220-0188	
					L	1x1000m	155220-0189	
				Grey	S	1x100m	155220-0190	
					M	1x500m	155220-0191	
					L	1x1000m	155220-0192	
		12	11,5	Black	S	1x100m	155220-0193	
					M	1x500m	155220-0194	
					L	1x1000m	155220-0195	
				Grey	S	1x100m	155220-0196	
					M	1x500m	155220-0197	
					L	1x1000m	155220-0198	
		17	13,4	Black	S	1x100m	155220-0199	
					M	1x500m	155220-0200	
					L	1x1000m	155220-0201	
				Grey	S	1x100m	155220-0202	
					M	1x500m	155220-0203	
					L	1x1000m	155220-0204	
25	16,0	Black	S	1x100m	155220-0205			
			M	1x250m	155220-0206			
			L	1x500m	155220-0207			
		Grey	S	1x100m	155220-0208			
			M	1x250m	155220-0209			
			L	1x500m	155220-0210			
1,5	16	2	7,1	Black	S	3x100m	155220-0211	
					M	1x500m	155220-0212	
					L	1x1000m	155220-0213	
				Grey	S	3x100m	155220-0214	
					M	1x500m	155220-0215	
					L	1x1000m	155220-0216	
		3	7,3	Black	S	3x100m	155220-0217	
					M	1x500m	155220-0218	
					L	1x1000m	155220-0219	
				Grey	S	3x100m	155220-0220	
					M	1x500m	155220-0221	
					L	1x1000m	155220-0222	