

CABLE SERIES 155230 (Unshielded) – 155231 (Shielded)
Signal & Control - UL AWM recognized - PUR jacket
cUL_{US} Style 21223 (80°C / 1000V)

1. CONSTRUCTION DATA

1.1 CONDUCTOR:

Bare copper strand; according to EN 13602 - ETP1; stranding according to DIN VDE 0295, EN60228 Class 6
Stranded lay compliant with UL 758.

1.2 WIRE STRUCTURE:

Nominal Section (mm ²)	AWG	Stranding (nbr of wires x wire diameter in mm)	Diameter of stranded core (mm)	Max Resistance Ref. std. IEC 60344 (Ω/km)
0.25	24	32x0.10	0.62	85.8
0.34	22	42x0.10	0.80	65.3
0.50	21	28x0.15	0.95	42.3
0.75	19	42x0.15	1.20	27.7
1.00	18	52x0.15	1.32	22.4
1.50	16	81x0.15	1.50	14.4
2.50	14	133x0.15	2.10	8.7

1.3 INSULATION:

Thermoplastic Elastomer compound; Max Insulation resistance >600 MΩxkm (IEC60189-1&IEC60885-1 or EN50289-1-4);
nominal hardness 50 Shore D; according to UL758

1.4 INSULATION DIAMETER

Nominal Section (mm ²)	Nominal Ø (mm)	Nominal thickness (mm)
0.25	1.1	0.25
0.34	1.3	0.25
0.50	1.5	0.29
0.75	1.8	0.30
1.00	2.1	0.38
1.50	2.4	0.45
2.50	3.1	0.50

1.5 ASSEMBLY:

Cores stranded together in one or two layers (depending on the number of cores), where if necessary one or more fillers
can be used for a better roundness.

1.6 SHIELD (only for 0.34mm², series 155231):

Braid type, tin copper wire; nominal optical Coverage 85%; tapes are used for protection of shield, PET foil under braid
and Nonwovens TNT over braid.

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1.7 JACKET:

Polyurethane (PUR, TPU), ether base, Halogen free, nominal hardness 90 Shore A; Silicone, Pb,Cd,Hg & FCKW free; according to UL758.

For overall diameter, jacket and cores colors refer to Annex #1 & #2.

2. TECHNICAL DATA

2.1 ELECTRICAL:

Voltage rating	1000 Vrms
Voltage test on core (thick. <0.4mm)	3000 Vrms x 1 min. (IEC60885-1)
Voltage test on core (thick. ≥0.4mm)	3500 Vrms x 1 min. (IEC60885-1)
Voltage test (core/screen if present)	3000 Vrms x 1 min. (IEC60885-1)

2.2 TEMPERATURE:

Temperature range (fixed)	-50 °C to +90°C (10'000h ISO6722 pending)
Temperature range (flex)	-40°C to +80°C (free motion without periodic recurrence and forced guidance)
Temperature range (drag chain)	-35°C to +60°C

2.3 CHEMICAL:

Oil resistance	UL758/UL2556/EN50363-10-2 (7 days @ 100°C - IRM902 oil)
Free of FCKW, Silicone and Pb	yes
Halogen free	yes (IEC60754-1 EN50267-2-1 VDE0472-815)

2.4 PHYSICAL:

UV resistant	yes (UL1581/2556– 300h)
Max installation pulling force	50N
Bending radius (fixed)	>5xOD
Bending radius (flex and drag chain)	>7.5xOD (up to 5Mio @ 20°C in a freely suspended chain)*
Torsion @ 20°C	Up to ±180°/m (±30°/m shielded cable)*

*Default criterium of the norm-bendings is electrical failure due to conductor breakage or conductor short-circuit. Extreme sheath adhesion is not a default criterium since it cannot be influenced by the cable manufacturer (e.g. through big abrasion between cable and chain, non-suitable chain construction or wrong installation of cable in the chain).

2.5 FLAME:

UL Vertical Flame Test	pass
UL VW-1, CSA FT-1	pass
IEC 60332-1	pass
IEC 60332-2	pass

3. COMPLIANCE

Accordance to:

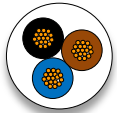
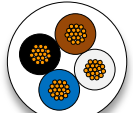
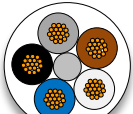
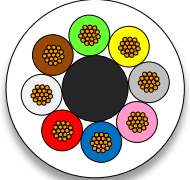
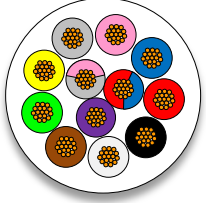
- 2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS)
- UL/CSA (UL AWM Style 21223, use: external interconnect. of electronic equipment)
- NFPA79-2012 circumstances mentioned in Chapter 12

4. PRINTING & PACKAGE

Printing text	Ink-jet type; conform to UL758
Package	available in different packaging sizes (refer to Annex #1 & #2)

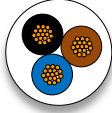
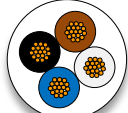
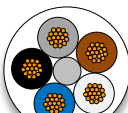
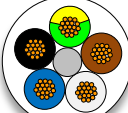
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ANNEX 1 (UNSHIELDED)

mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*			
0,25	24	3	4,5	Black	S	3x200m	1552300001	 Brown-Blue-Black			
				Black	M	1x800m	1552300002				
				Black	L	1x1500m	1552300003				
				Grey	S	3x200m	1552300004				
				Grey	M	1x800m	1552300005				
				Grey	L	1x1500m	1552300006				
				Yellow	S	3x200m	1552300007				
				Yellow	M	1x800m	1552300008				
				Yellow	L	1x1500m	1552300009				
				Orange	S	3x200m	1552300010				
				Orange	M	1x800m	1552300011				
				Orange	L	1x1500m	1552300012				
		4	4,8	Black	S	3x200m	1552300013	 Brown-White-Blue-Black			
				Black	M	1x800m	1552300014				
				Black	L	1x1500m	1552300015				
				Grey	S	3x200m	1552300016				
				Grey	M	1x800m	1552300017				
				Grey	L	1x1500m	1552300018				
				Yellow	S	3x200m	1552300019				
				Yellow	M	1x800m	1552300020				
				Yellow	L	1x1500m	1552300021				
				Orange	S	3x200m	1552300022				
				Orange	M	1x800m	1552300023				
				Orange	L	1x1500m	1552300024				
		5	5,3	Black	S	3x200m	1552300025	 Brown-White-Blue-Black-Grey			
				Black	M	1x800m	1552300026				
				Black	L	1x1500m	1552300027				
				Grey	S	3x200m	1552300028				
				Grey	M	1x800m	1552300029				
				Grey	L	1x1500m	1552300030				
				Yellow	S	3x200m	1552300031				
				Yellow	M	1x800m	1552300032				
				Yellow	L	1x1500m	1552300033				
				8	6,4	Black	S		3x100m	1552300034	 White-Brown-Green-Yellow Grey-Pink-Blue-Red
						Black	M		1x500m	1552300035	
						Black	L		1x1000m	1552300036	
		Grey	S			3x100m	1552300037				
		Grey	M			1x500m	1552300038				
		Grey	L			1x1000m	1552300039				
		Yellow	S			3x100m	1552300040				
		Yellow	M			1x500m	1552300041				
		Yellow	L			1x1000m	1552300042				
		12	6,9			Black	S	3x100m	1552300043	 White-Brown-Green-Yellow- Grey-Pink-Blue Red-Black-Violet-Grey/Pink-Red/Blue	
						Black	M	1x500m	1552300044		
						Black	L	1x1000m	1552300045		
				Grey	S	3x100m	1552300046				
				Grey	M	1x500m	1552300047				
				Grey	L	1x1000m	1552300048				
Yellow	S			3x100m	1552300049						
Yellow	M			1x500m	1552300050						
Yellow	L			1x1000m	1552300051						

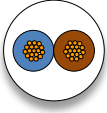
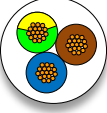
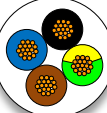
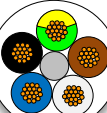
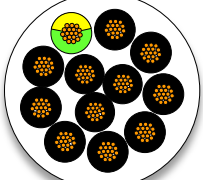
*Colour Sequence
for packaging size L: colors clockwise exit drum (as in sketch)
for packaging size M and S; colors counterclockwise

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mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*
0,34	22	3	4,8	Black	S	3x200m	1552300052	 Brown-Blue-Black
				Black	M	1x800m	1552300053	
				Black	L	1x1500m	1552300054	
				Grey	S	3x200m	1552300055	
				Grey	M	1x800m	1552300056	
				Grey	L	1x1500m	1552300057	
				Yellow	S	3x200m	1552300058	
				Yellow	M	1x800m	1552300059	
				Yellow	L	1x1500m	1552300060	
				Orange	S	3x200m	1552300061	
				Orange	M	1x800m	1552300062	
				Orange	L	1x1500m	1552300063	
		4	5,1	Black	S	3x200m	1552300064	 Brown-White-Blue-Black
				Black	M	1x800m	1552300065	
				Black	L	1x1500m	1552300066	
				Grey	S	3x200m	1552300067	
				Grey	M	1x800m	1552300068	
				Grey	L	1x1500m	1552300069	
				Yellow	S	3x200m	1552300070	
				Yellow	M	1x800m	1552300071	
				Yellow	L	1x1500m	1552300072	
				Orange	S	3x200m	1552300073	
				Orange	M	1x800m	1552300074	
				Orange	L	1x1500m	1552300075	
		5	5,5	Black	S	3x200m	1552300076	 Brown-White-Blue-Black-Grey
				Black	M	1x800m	1552300077	
				Black	L	1x1500m	1552300078	
				Grey	S	3x200m	1552300079	
				Grey	M	1x800m	1552300080	
				Grey	L	1x1500m	1552300081	
				Yellow	S	3x200m	1552300082	
				Yellow	M	1x800m	1552300083	
				Yellow	L	1x1500m	1552300084	
				Orange	S	3x200m	1552300085	
				Orange	M	1x800m	1552300086	
				Orange	L	1x1500m	1552300087	
Black	S			3x200m	1552300088	 Brown-White-Blue-Black-Yellow/Green		
Black	M			1x800m	1552300089			
Black	L			1x1500m	1552300090			
Grey	S			3x200m	1552300091			
Grey	M			1x800m	1552300092			
Grey	L			1x1500m	1552300093			
Yellow	S	3x200m	1552300094					
Yellow	M	1x800m	1552300095					
Yellow	L	1x1500m	1552300096					
Orange	S	3x200m	1552300097					
Orange	M	1x800m	1552300098					
Orange	L	1x1500m	1552300099					

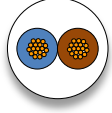
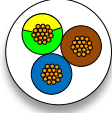
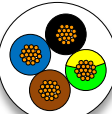
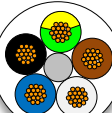
*Colour Sequence
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0,50	21	2	5,2	Black	S	3x200m	1552300100	 Blue-Brown
				Black	M	1x800m	1552300101	
				Black	L	1x1500m	1552300102	
				Grey	S	3x200m	1552300103	
				Grey	M	1x800m	1552300104	
				Grey	L	1x1500m	1552300105	
		3	5,6	Black	S	3x100m	1552300106	 Brown-Blue-Yellow/Green
				Black	M	1x500m	1552300107	
				Black	L	1x1000m	1552300108	
				Grey	S	3x100m	1552300109	
				Grey	M	1x500m	1552300110	
				Grey	L	1x1000m	1552300111	
		4	5,9	Orange	S	3x100m	1552300112	 Brown-Blue-Black-Yellow/Green
				Orange	M	1x500m	1552300113	
				Orange	L	1x1000m	1552300114	
				Black	S	3x100m	1552300115	
				Black	M	1x500m	1552300116	
				Black	L	1x1000m	1552300117	
		5	6,2	Grey	S	3x100m	1552300118	 Brown-White-Blue-Black-Yellow/Green
				Grey	M	1x500m	1552300119	
				Grey	L	1x1000m	1552300120	
				Black	S	3x100m	1552300121	
				Black	M	1x500m	1552300122	
				Black	L	1x1000m	1552300123	
		12	8,7	Grey	S	3x100m	1552300124	 Black numbered in White + Yellow/Green
				Grey	M	1x500m	1552300125	
				Grey	L	1x1000m	1552300126	
				Black	S	1x200m	1552300127	
				Black	M	1x500m	1552300128	
				Black	L	1x1000m	1552300129	

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mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*
0,75	19	2	6	Black	S	3x100m	1552300133	 Blue-Brown
				Black	M	1x500m	1552300134	
				Black	L	1x1000m	1552300135	
				Grey	S	3x100m	1552300136	
				Grey	M	1x500m	1552300137	
				Grey	L	1x1000m	1552300138	
		3	6,4	Black	S	3x100m	1552300139	 Brown-Blue-Yellow/Green
				Black	M	1x500m	1552300140	
				Black	L	1x1000m	1552300141	
				Grey	S	3x100m	1552300142	
				Grey	M	1x500m	1552300143	
				Grey	L	1x1000m	1552300144	
		4	7,0	Black	S	3x100m	1552300145	 Brown-Blue-Black-Yellow/Green
				Black	M	1x500m	1552300146	
				Black	L	1x1000m	1552300147	
				Grey	S	3x100m	1552300148	
				Grey	M	1x500m	1552300149	
				Grey	L	1x1000m	1552300150	
		5	7,5	Black	S	3x100m	1552300151	 Brown-White-Blue-Black-Yellow/Green
				Black	M	1x500m	1552300152	
Black	L			1x1000m	1552300153			
Grey	S			3x100m	1552300154			
Grey	M			1x500m	1552300155			
Grey	L			1x1000m	1552300156			

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mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*	
1,00	18	2	6,7	Black	S	3x100m	1552300157	 Blue-Brown	
				Black	M	1x500m	1552300158		
				Black	L	1x1000m	1552300159		
				Grey	S	3x100m	1552300160		
				Grey	M	1x500m	1552300161		
				Grey	L	1x1000m	1552300162		
		3	7,1	3	Black	S	3x100m	1552300163	 Brown-Blue-Yellow/Green
					Black	M	1x500m	1552300164	
					Black	L	1x1000m	1552300165	
					Grey	S	3x100m	1552300166	
					Grey	M	1x500m	1552300167	
					Grey	L	1x1000m	1552300168	
		4	7,6	4	Black	S	3x100m	1552300169	 Brown-Blue-Black-Yellow/Green
					Black	M	1x500m	1552300170	
					Black	L	1x1000m	1552300171	
					Grey	S	3x100m	1552300172	
					Grey	M	1x500m	1552300173	
					Grey	L	1x1000m	1552300174	
		5	8,3	5	Black	S	1x200m	1552300175	 Brown-White-Blue-Black-Yellow/Green
					Black	M	1x500m	1552300176	
					Black	L	1x1000m	1552300177	
					Grey	S	1x200m	1552300178	
					Grey	M	1x500m	1552300179	
					Grey	L	1x1000m	1552300180	
		7	9,6	7	Black	S	1x200m	1552300181	 Black numbered in White + Yellow/Green
					Black	M	1x500m	1552300182	
					Black	L	1x1000m	1552300183	
					Grey	S	1x200m	1552300184	
					Grey	M	1x500m	1552300185	
					Grey	L	1x1000m	1552300186	
		11	11,5	11	Black	S	1x100m	1552300187	 Black numbered in White + Yellow/Green
					Black	M	1x500m	1552300188	
					Black	L	1x1000m	1552300189	
					Grey	S	1x100m	1552300190	
					Grey	M	1x500m	1552300191	
					Grey	L	1x1000m	1552300192	
		12	11,5	12	Black	S	1x100m	1552300193	 Black numbered in White + Yellow/Green
					Black	M	1x500m	1552300194	
					Black	L	1x1000m	1552300195	
					Grey	S	1x100m	1552300196	
					Grey	M	1x500m	1552300197	
					Grey	L	1x1000m	1552300198	
		17	13,4	17	Black	S	1x100m	1552300199	 Black numbered in White + Yellow/Green
					Black	M	1x500m	1552300200	
					Black	L	1x1000m	1552300201	
					Grey	S	1x100m	1552300202	
					Grey	M	1x500m	1552300203	
					Grey	L	1x1000m	1552300204	
25	16,0	25	Black	S	1x100m	1552300205	 Black numbered in White + Yellow/Green		
			Black	M	1x250m	1552300206			
			Black	L	1x500m	1552300207			
			Grey	S	1x100m	1552300208			
			Grey	M	1x250m	1552300209			
			Grey	L	1x500m	1552300210			

*Colour Sequence

for packaging size L: colors clockwise exit drum (as in sketch)

for packaging size M and S; colors counterclockwise

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mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*				
1,5	16	2	7,1	Black	S	3x100m	1552300211	 Blue-Brown				
				Black	M	1x500m	1552300212					
				Black	L	1x1000m	1552300213					
				Grey	S	3x100m	1552300214					
				Grey	M	1x500m	1552300215					
				Grey	L	1x1000m	1552300216					
		3	7,3	3	7,3	Black	S	3x100m	1552300217	 Brown-Blue-Yellow/Green		
						Black	M	1x500m	1552300218			
						Black	L	1x1000m	1552300219			
						Grey	S	3x100m	1552300220			
						Grey	M	1x500m	1552300221			
						Grey	L	1x1000m	1552300222			
		4	7,9	4	7,9	Black	S	3x100m	1552300223	 Brown-White-Blue-Black		
						Black	M	1x500m	1552300224			
						Black	L	1x1000m	1552300225			
						Grey	S	3x100m	1552300226			
						Grey	M	1x500m	1552300227			
						Grey	L	1x1000m	1552300228			
				4	7,9	4	7,9	Black	S	3x100m	1552300229	 Brown-Blue-Black-Yellow/Green
								Black	M	1x500m	1552300230	
								Black	L	1x1000m	1552300231	
								Grey	S	3x100m	1552300232	
								Grey	M	1x500m	1552300233	
								Grey	L	1x1000m	1552300234	
		5	8,6	5	8,6	Black	S	1x200m	1552300235	 Brown-White-Blue-Black-Yellow/Green		
						Black	M	1x500m	1552300236			
						Black	L	1x1000m	1552300237			
						Grey	S	1x200m	1552300238			
						Grey	M	1x500m	1552300239			
						Grey	L	1x1000m	1552300240			
		7	10,5	7	10,5	Black	S	1x100m	1552300241	 Black numbered in White + Yellow/Green		
						Black	M	1x500m	1552300242			
						Black	L	1x1000m	1552300243			
						Grey	S	1x100m	1552300244			
						Grey	M	1x500m	1552300245			
						Grey	L	1x1000m	1552300246			
		11	12,7	11	12,7	Black	S	1x100m	1552300247	 Black numbered in White + Yellow/Green		
						Black	M	1x500m	1552300248			
						Black	L	1x1000m	1552300249			
						Grey	S	1x100m	1552300250			
						Grey	M	1x500m	1552300251			
						Grey	L	1x1000m	1552300252			
		12	12,7	12	12,7	Black	S	1x100m	1552300253	 Black numbered in White + Yellow/Green		
						Black	M	1x500m	1552300254			
						Black	L	1x1000m	1552300255			
						Grey	S	1x100m	1552300256			
						Grey	M	1x500m	1552300257			
						Grey	L	1x1000m	1552300258			
17	14,7	17	14,7	Black	S	1x100m	1552300259	 Black numbered in White + Yellow/Green				
				Black	M	1x500m	1552300260					
				Black	L	1x1000m	1552300261					
				Grey	S	1x100m	1552300262					
				Grey	M	1x500m	1552300263					
				Grey	L	1x1000m	1552300264					
25	17,7	25	17,7	Black	S	1x100m	1552300265	 Black numbered in White + Yellow/Green				
				Black	M	1x250m	1552300266					
				Black	L	1x500m	1552300267					
				Grey	S	1x100m	1552300268					
				Grey	M	1x250m	1552300269					
				Grey	L	1x500m	1552300270					

*Colour Sequence: for packaging size L: colors clockwise exit drum (as in sketch); for packaging size M and S; colors counterclockwise


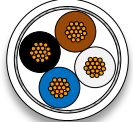
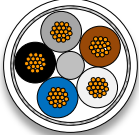
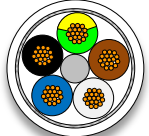
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mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*		
2,5	14	2	8,8	Black	S	1x200m	1552300271	 Blue-Brown		
				Black	M	1x500m	1552300272			
				Black	L	1x1000m	1552300273			
				Grey	S	1x200m	1552300274			
				Grey	M	1x500m	1552300275			
				Grey	L	1x1000m	1552300276			
		3	9,3	3	9,3	Black	S	1x200m	1552300277	 Brown-Blue-Yellow/Green
						Black	M	1x500m	1552300278	
						Black	L	1x1000m	1552300279	
						Grey	S	1x200m	1552300280	
						Grey	M	1x500m	1552300281	
						Grey	L	1x1000m	1552300282	
		4	10,1	4	10,1	Black	S	1x100m	1552300283	 Brown-Blue-Black-Yellow/Green
						Black	M	1x500m	1552300284	
						Black	L	1x1000m	1552300285	
						Grey	S	1x100m	1552300286	
						Grey	M	1x500m	1552300287	
						Grey	L	1x1000m	1552300288	
		5	11,3	5	11,3	Black	S	1x100m	1552300289	 Brown-White-Blue-Black-Yellow/Green
						Black	M	1x500m	1552300290	
						Black	L	1x1000m	1552300291	
						Grey	S	1x100m	1552300292	
						Grey	M	1x500m	1552300293	
						Grey	L	1x1000m	1552300294	
		7	13,3	7	13,3	Black	S	1x100m	1552300295	 Black numbered in White + Yellow/Green
						Black	M	1x500m	1552300296	
						Black	L	1x1000m	1552300297	
						Grey	S	1x100m	1552300298	
						Grey	M	1x500m	1552300299	
						Grey	L	1x1000m	1552300300	
		11	15,7	11	15,7	Black	S	1x100m	1552300301	 Black numbered in White + Yellow/Green
						Black	M	1x250m	1552300302	
						Black	L	1x500m	1552300303	
						Grey	S	1x100m	1552300304	
						Grey	M	1x250m	1552300305	
						Grey	L	1x500m	1552300306	
		12	15,9	12	15,9	Black	S	1x100m	1552300307	 Black numbered in White + Yellow/Green
						Black	M	1x250m	1552300308	
						Black	L	1x500m	1552300309	
						Grey	S	1x100m	1552300310	
						Grey	M	1x250m	1552300311	
						Grey	L	1x500m	1552300312	
17	18,5	17	18,5	Black	S	1x100m	1552300313	 Black numbered in White + Yellow/Green		
				Black	M	1x250m	1552300314			
				Black	L	1x500m	1552300315			
				Grey	S	1x100m	1552300316			
				Grey	M	1x250m	1552300317			
				Grey	L	1x500m	1552300318			
25	22,3	25	22,3	Black	S	1x350m	1552300319	 Black numbered in White + Yellow/Green		
				Grey	S	1x350m	1552300322			

*Colour Sequence
for packaging size L: colors clockwise exit drum (as in sketch)
for packaging size M and S; colors counterclockwise

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ANNEX 2 (SHIELDED)

mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*	
0,34	22	3	5,4	Black	S	3x200m	1552310001	 Brown-Blue-Black	
				Black	M	1x800m	1552310002		
				Black	L	1x1500m	1552310003		
				Grey	S	3x200m	1552310004		
				Grey	M	1x800m	1552310005		
				Grey	L	1x1500m	1552310006		
				Yellow	S	3x200m	1552310007		
				Yellow	M	1x800m	1552310008		
				Yellow	L	1x1500m	1552310009		
				Orange	S	3x200m	1552310010		
				Orange	M	1x800m	1552310011		
				Orange	L	1x1500m	1552310012		
		4	5,7	Black	S	3x100m	1552310013	 Brown-White-Blue-Black	
				Black	M	1x500m	1552310014		
				Black	L	1x1000m	1552310015		
				Grey	S	3x100m	1552310016		
				Grey	M	1x500m	1552310017		
				Grey	L	1x1000m	1552310018		
				Yellow	S	3x100m	1552310019		
				Yellow	M	1x500m	1552310020		
				Yellow	L	1x1000m	1552310021		
				Orange	S	3x100m	1552310022		
				Orange	M	1x500m	1552310023		
				Orange	L	1x1000m	1552310024		
		5	6,1	Black	S	3x100m	1552310025	 Brown-White-Blue-Black-Grey	
				Black	M	1x500m	1552310026		
				Black	L	1x1000m	1552310027		
				Grey	S	3x100m	1552310028		
				Grey	M	1x500m	1552310029		
				Grey	L	1x1000m	1552310030		
				Yellow	S	3x100m	1552310031		
				Yellow	M	1x500m	1552310032		
				Yellow	L	1x1000m	1552310033		
				Orange	S	3x100m	1552310034		
				Orange	M	1x500m	1552310035		
				Orange	L	1x1000m	1552310036		
				Black	S	3x100m	1552310037		 Brown-White-Blue-Black-Yellow/Green
				Black	M	1x500m	1552310038		
				Black	L	1x1000m	1552310039		
				Grey	S	3x100m	1552310040		
		Grey	M	1x500m	1552310041				
		Grey	L	1x1000m	1552310042				
		Yellow	S	3x100m	1552310043				
		Yellow	M	1x500m	1552310044				
		Yellow	L	1x1000m	1552310045				
		Orange	S	3x100m	1552310046				
		Orange	M	1x500m	1552310047				
		Orange	L	1x1000m	1552310048				

*Colour Sequence
for packaging size L: colors clockwise exit drum (as in sketch)
for packaging size M and S; colors counterclockwise

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