

#### **High Flex Control Cable**



AutomationDirect is pleased to offer the igus CF9 and CF10 series multi-conductor control cables for continuous flexing applications. These cables are available in sizes from 20AWG to 14AWG with 3 to 7 unshielded (CF9 series) or 4 and 5 shielded (CF10 series) conductors. Individual conductors are bare copper and stranded for flexing applications. Conductor insulation is a mechanically high-quality black TPE mixture. Individual conductors are marked with white numbers for easy identification. A convenient ground conductor is included in the conductor count of each cable and has green-yellow insulation. The cable's outer jacket is a low-adhesion pressure extruded slate gray TPE mixture that provides resistance to sunlight, oil penetration, and flame-retardant.

Unshielded Chainflex<sup>®</sup> cables have a tear strip underneath the outer jacket, but shielded Chainflex<sup>®</sup> cables have it underneath the inner jacket. With a few easy steps, the jacket can be opened like a zipper to the desired length by pulling on the special tear strip. The outer jacket/inner jacket can then be removed from conductors. This not only saves time and effort for assemblers and electricians, but also means they have no need for additional tools. Cables are designed such that the strip does not cause damage to the jacket or conductors, even after millions of motion cycles.

The igus CF9 and CF10 multi-conductor control cables are specifically designed, tested, and manufactured for continuous flexing, high mechanical load application requirements, and will provide a guaranteed service life between 5 million and 10 million cycles when operated within specified conditions\*.

#### **Features**

- 0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (20AWG to 14AWG), 3 to 7 conductors, including ground
- · Unshielded and shielded constructions
- 0.5 mm<sup>2</sup> (20AWG) conductors have color coded TPE insulation, larger conductors have black TPE insulation and are marked with white identification numbers
- Low adhesion pressure extruded TPE mixture outer jacket that is sunlight and oil resistant and flame retardant
- · Green/yellow ground wire included
- Rated for continuous flexing applications with high mechanical load

- requirements
- Guaranteed service life between 5 million and 10 million cycles when operated within specified conditions
- UL Recognized type AWM (appliance wiring material)
- Cut to length in 1-foot increments
- · Low 20-foot minimum length
- 3-year warranty\*
- PVC Free



Strip cables 50% faster: The tear strip is in the outer jacket for unshielded cables and inner jacket for shielded

#### \* CF9 and CF10 Series Guaranteed lifetime according to guarantee conditions

Cycles	5 million	7.5 million	10 million
Temperature, from/to [°F]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-31/-13 (-35°C / -25°C)	6.8	7.5	8.5
-13/194 (-25°C / +90°C)	5.0	6.0	7.0
194/212 (+90°C/ +100°C)	6.8	7.5	8.5











Click on the above thumbnail or go to https://www.automationdirect.com/vID-WD-0016 for a short introduction on our cut to length cable

# 0.5 mm<sup>2</sup> (20AWG) High Flex Control Cable CF9 Series Unshielded

0.5 mm <sup>2</sup> (20AWG) Mul	ti-Conductor High Flex C	ontrol Cable Spe	cifications (Unshielded)
Conductors Gauge & Stranding	0.5 mm² (20AWG) 28/0.15 mm² bare copper	Conductor Insulation	Black TPE with green/yellow ground
Voltage Ratings	300/500V per UL	Conductor Markings	#1 white, #2 brown, #3 green, #4 yellow, #5 grey
voltage Hallings	Tested to 2000V	Outer Jacket	Slate Gray TPE
	e-Chain <sup>®</sup> , 5.0 x diameter	UV Resistance	Yes
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes
	Fixed, 3.0 x diameter	Flame Retardant	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1
	e-Chain, -31°F to +212°F (-35°C to +100°C)	Silicone-free	Yes
Temperature Ratings	Flexible*, -49°F to +212°F (-45°C to +100°C) Fixed, -58°F to +212°F (-50°C to +100°C)		UL/CSA Style 10492 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter 12.9 EAC; Certified to no. TC RU C-DE.
Max. Velocity	Unsupported, 33 ft/s (10 m/s)		ME77.B.01254
max. velocity	Gliding, 19.6 ft/s (6 m/s)	Approvals	CTP; Certified to no. C-DE. PB49.B.00416 Lead Free; Following 2011/65/EU (RoHS-II)
Max. Acceleration	328.08 ft/s² (100 m/s²)		CEI; Following CEI 20-35 Clean Room; According to ISO Class 1, outer jacket material complies with CF130.15.07.UL, tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (400m)	Samula Drint Laurer I	igus chainflex CF5.xx.xx xxGxx 300/500V E310776 C cRUus AWM Style 2570 VW-1
Torsion	90° rotation with 3.281 ft (1m) of cable length	Sample Print Legend	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

0.5 mm	<sup>2</sup> (20AWG) M	ulti-Con	ductor H	igh Flex Con	trol Cable	(Unshield	ed)
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per Foot
							igus
<u>CF9-UL-05-03-1</u>	3	0.5 mm <sup>2</sup> (20AWG)	28	0.24	20	0.03	\$2.62
							iaus c
<u>CF9-UL-05-04-1</u>	4	0.5 mm <sup>2</sup> (20AWG)	28	0.28	20	0.04	\$3.08
			-			1	ians
<u>CF9-UL-05-05-1</u>	5	0.5 mm² (20AWG)	28	0.31	20	0.05	\$3.31

<sup>\*</sup> See web store for maximum cut lengths





Please Note: Our prices on
Flexing Control Cable are closely tied to the market price for copper. This allows us to offer the best savings
possible if conditions are favorable; however, it also means
that our prices may increase if market
conditions warrant.

### 0.75 mm<sup>2</sup> (18AWG) High Flex Control Cable CF9 Series Unshielded

0.75 mm <sup>2</sup> (18AWG) Mu	lti-Conductor High Flex (	Control Cable Spe	ecifications (Unshielded)
Conductors Gauge & Stranding	0.75 mm² (18AWG) 42/0.15 mm² bare copper	Conductor Insulation	Black TPE with green/yellow ground
Voltage Ratings	300/500V per UL	Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4
Politing Hallings	Tested to 2000V	Outer Jacket	Slate Gray TPE
	e-Chain®, 5.0 x diameter	UV Resistance	Yes
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes
	Fixed, 3.0 x diameter	Flame Retardant	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1
	e-Chain, -31°F to +212°F (-35°C to +100°C)	Silicone-free	Yes
Temperature Ratings	Flexible*, -49°F to +212°F (-45°C to +100°C)		UL/CSA Style 11113 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter
	Fixed, -58°F to +212°F (-50°C to +100°C)		12.9 EAC; Certified to no. TC RU C-DE.
Max. Velocity	Unsupported, 33 ft/s (10 m/s)	ME77.B.01254	
max. velocity	Gliding, 19.6 ft/s (6 m/s)	CTP; Certified to no. C-DE. PB49.B.00416 Lead Free; Following 2011/65/EU (RoHS-II)	
Max. Acceleration	328.08 ft/s² (100 m/s²)	Approvals	CEI; Following CEI 20-35 Clean Room; According to ISO Class 1, outer jacket material complies with CF130.15.07.UL, tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (100m)	Occupie Driet Langue	igus chainflex CF5.xx.xx xxGxx 300/500V E310776 C cRUus AWM Style 2570 VW-1
Torsion	90° rotation with 3.281 ft (1m) of cable length	Sample Print Legend	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

0.75 mn	n² (18AWG) M	ulti-Cond	luctor Hig	gh Flex Contro	l Cable (U	Inshielded	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per Foot
							ians cha
<u>CF9-UL-07-05-1</u>	5	0.75 mm² (18AWG)	42	0.26	20	0.06	\$4.06
						4	iaus chai
<u>CF9-UL-07-07-1</u>	7	0.75 mm <sup>2</sup> (18AWG)	42	0.28	20	0.09	\$5.23

<sup>\*</sup> See web store for maximum cut lengths





Please Note: Our prices on
Flexing Control Cable are closely tied to the
market price for copper. This allows us to offer the best
savings possible if conditions are favorable; however, it
also means that our prices may increase if market
conditions warrant.

## 1.5 mm<sup>2</sup> (16AWG) High Flex Control Cable CF9 Series Unshielded

1.5 mm <sup>2</sup> (16AWG) Mult	ti-Conductor High Flex C	ontrol Cable Spe	cifications (Unshielded)	
Conductors Gauge & Stranding	1.5 mm² (16AWG) 80/0.15 mm² bare copper	Conductor Insulation	Black TPE with green/yellow ground	
Voltage Ratings	300/500V per UL	Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	
ronage namge	Tested to 2000V	Outer Jacket	Slate Gray TPE	
	e-Chain®**, 5.0 x diameter	UV Resistance	Yes	
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes	
	Fixed, 3.0 x diameter	Flame Retardant	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1	
	e-Chain, -31°F to +212°F (-35°C to +100°C)	Silicone-free	Yes	
Temperature Ratings	Flexible*, -49°F to +212°F (-45°C to +100°C) Fixed, -58°F to +212°F (-50°C to +100°C)		UL/CSA Style 11113 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter 12.9 EAC; Certified to no. TC RU C-DE.	
Max. Velocity	Unsupported, 33 ft/s (10 m/s)		ME77.B.01254	
max. velocity	Gliding, 19.6 ft/s (6 m/s)	Approvals	CTP; Certified to no. C-DE. PB49.B.00416 Lead Free; Following 2011/65/EU (RoHS-II)	
Max. Acceleration	328.08 ft/s² (100 m/s²)	,	CEI; Following CEI 20-35 Clean Room; According to ISO Class 1, outer jacket material complies with CF130.15.07.UL, tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU	
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (100m)	Osmala Drint Lance I	igus chainflex CF5.xx.xx xxGxx 300/500V E310776 C cRUus AWM Style 2570 VW-1	
Torsion	90° rotation with 3.281 ft (1m) of cable length	Sample Print Legend	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de	

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

1.5 mm	<sup>2</sup> (16AWG) Mւ	ılti-Cond	uctor Hig	h Flex Control	Cable (U	nshielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per Foot
							iaus che
<u>CF9-UL-15-04-1</u>	4	1.5 mm² (16AWG)	80	0.30	20	0.08	\$5.12
							iaus cha:
<u>CF9-UL-15-05-1</u>	5	1.5 mm² (16AWG)	80	0.31	20	0.10	\$5.92

<sup>\*</sup> See web store for maximum cut lengths





Please Note: Our prices on
Flexing Control Cable are closely tied to the market
price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that
our prices may increase if market
conditions warrant.

<sup>\*\*</sup> For 7 conductor cable with travel distance ≥ 5m (16.4ft) requires bending radius ≥ 17 x diameter

# 2.5 mm<sup>2</sup> (14AWG) High Flex Control Cable CF9 Series Unshielded

2.5 mm <sup>2</sup> (14AWG) Muli	ti-Conductor High Flex C	ontrol Cable Spe	cifications (Unshielded)
Conductors Gauge & Stranding	2.5 mm² (14AWG) 76/0.2 mm² bare copper	Conductor Insulation	Black TPE with green/yellow ground
Voltage Ratings	300/500V per UL	Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4
voltage Hattings	Tested to 2000V	Outer Jacket	Slate Gray TPE
	e-Chain®**, 5.0 x diameter	UV Resistance	Yes
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes
	Fixed, 3.0 x diameter	Flame Retardant	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1
	e-Chain, -31°F to +212°F (-35°C to +100°C)	Silicone-free	Yes
Temperature Ratings	Flexible*, -49°F to +212°F (-45°C to +100°C) Fixed, -58°F to +212°F (-50°C to +100°C)		UL/CSA Style 11113 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter 12.9 EAC; Certified to no. TC RU C-DE.
May Malacity	Unsupported, 33 ft/s (10 m/s)		ME77.B.01254
Max. Velocity	Gliding, 19.6 ft/s (6 m/s)	Approvals	CTP; Certified to no. C-DE. PB49.B.00416 Lead Free; Following 2011/65/EU (RoHS-II)
Max. Acceleration	328.08 ft/s² (100 m/s²)		CEI; Following CEI 20-35 Clean Room; According to ISO Class 1, outer jacket material complies with CF130.15.07.UL, tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (100m)	Sample Print Legend	igus chainflex CF5.xx.xx xxGxx 300/500V E310776 C cRUus AWM Style 2570 VW-1
Torsion	90° rotation with 3.281 ft (1m) of cable length	Campio i init Logoliu	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

2.5 mm² (14AWG) Multi-Conductor High Flex Control Cable (Unshielded)							
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per Foot
							iaus ch
<u>CF9-UL-25-04-1</u>	4	2.5 mm <sup>2</sup> (14AWG)	76	0.39	20	0.13	\$6.79
							iaus cha
<u>CF9-UL-25-05-1</u>	5	2.5 mm <sup>2</sup> (14AWG)	76	0.51	20	0.16	\$7.63

<sup>\*</sup> For 7 conductor cable with travel distance ≥ 5m (16.4ft) requires bending radius ≥ 17 x diameter





Please Note: Our prices on
Flexing Control Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

<sup>\*\*</sup> For 7 conductor cable with travel distance ≥ 5m (16.4ft) requires bending radius ≥ 17 x diameter

<sup>\*\*</sup> See web store for maximum cut lengths

## 0.5 mm<sup>2</sup> (20AWG) High Flex Control Cable CF10 Series Shielded

0.5 mm <sup>2</sup> (20AWG) Mu	Iti-Conductor High Flex	<b>Control Cable Sp</b>	ecifications (Shielded)	
Conductors Gauge & Stranding	0.5 mm² (20AWG) 28/0.15 mm² bare copper	Conductor Markings	#1 white, #2 brown, #3 green, #4 yellow, #5 grey	
Waltana Dakinna	300/500V per UL	Inner Jacket	Tan TPE	
Voltage Ratings	Tested to 2000V	Outer Jacket	Slate Gray TPE	
	e-Chain <sup>®</sup> , 5.0 x diameter	UV Resistance	Yes	
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes	
	Fixed, 3.0 x diameter	Flame Retardant	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1	
	e-Chain, -31°F to +212°F (-35°C to +100°C)		Yes	
Temperature Ratings	Flexible*,-49°F to +212°F (-45°C to +100°C) Fixed, -58°F to +212°F (-50°C to +100°C)		UL/CSA Style 10492 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter 12.9 EAC; Certified to no. TC RU C-DE.	
Mar Malanti	Unsupported, 33 ft/s (10 m/s)		ME77.B.01254	
Max. Velocity	Gliding, 19.6 ft/s (6 m/s)	Approvals	CTP; Certified to no. C-DE. PB49.B.00416 Lead Free; Following 2011/65/EU (RoHS-II)	
Max. Acceleration	328.08 ft/s² (100 m/s²)		CEI; Following CEI 20-35 Clean Room; According to ISO Class 2, material/cable tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU	
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (100m)		igus chainflex CF6.xx.xx (xxGxx)C 300/500V E310776 C cRUus AWM Style 2570 VW-1	
Conductor Insulation	Black TPE with green/yellow ground	Sample Print Legend	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de	

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

0.5 m	m² (20AWG) M	ulti-Cor	ductor H	igh Flex Con	trol Cable	(Shielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per Foot
	-						isus chainfl
<u>CF10-UL-05-04-1</u>	4	0.5 mm <sup>2</sup> (20AWG)	28	0.33	20	0.07	\$5.19
	4000				1	i	sus chainfle
<u>CF10-UL-05-05-1</u>	5	0.5 mm <sup>2</sup> (20AWG)	28	0.39	20	0.07	\$5.50

<sup>\*</sup> See web store for maximum cut lengths





Please Note: Our prices on
Flexing Control Cable are closely tied to the market
price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that
our prices may increase if market
conditions warrant.

# 0.75 mm<sup>2</sup> (18AWG) High Flex Control Cable CF10 Series Shielded

0.75mm <sup>2</sup> (18AWG) Multi-Conductor High Flex Control Cable Specifications (Shielded)							
Conductors Gauge & Stranding	0.75 mm² (18AWG) 42/0.15 mm² bare copper	Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4				
Waltana Datinga	300/500V per UL	Inner Jacket	Tan TPE				
Voltage Ratings	Tested to 2000V	Outer Jacket	Slate Gray TPE				
	e-Chain®, 5.0 x diameter	UV Resistance	Yes				
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes				
	Fixed, 3.0 x diameter	ixed, 3.0 x diameter Flame Retardant					
	e-Chain, -31°F to +212°F (-35°C to +100°C)	Silicone-free	Yes				
Temperature Ratings	Flexible*, -49°F to +212°F (-45°C to +100°C) Fixed, -58°F to +212°F (-50°C to +100°C)	_	UL/CSA Style 11113 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter 12.9 EAC: Certified to no. TC RU C-DE.				
Man Valacita	Unsupported, 33 ft/s (10 m/s)		ME77.B.01254				
Max. Velocity	Gliding, 19.6 ft/s (6 m/s)	Approvals	CTP; Certified to no. C-DE. PB49.B.00416 Lead Free; Following 2011/65/EU (RoHS-II)				
Max. Acceleration	328.08 ft/s² (100 m/s²)		CEI; Following CEI 20-35 Clean Room; According to ISO Class 2, material/cable tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU				
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (100m)		igus chainflex CF6.xx.xx (xxGxx)C 300/500V E310776 C cRUus AWM Style 2570 VW-1				
Conductor Insulation	Black PVC with green/yellow ground	Sample Print Legend	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de				

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

0.75mm² (18AWG) Multi-Conductor High Flex Control Cable (Shielded)							
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per Foot
					-	į	aus chainfle
<u>CF10-UL-07-04-1</u>	4	0.75 mm² (18AWG)	42	0.33	20	0.08	\$5.67
						19	us chainflex
<u>CF10-UL-07-05-1</u>	5	0.75 mm <sup>2</sup> (18AWG)	42	0.41	20	0.10	\$6.41

<sup>\*</sup> See web store for maximum cut lengths





Please Note: Our prices on
Flexing Control Cable are closely tied to the
market price for copper. This allows us to offer the best
savings possible if conditions are favorable; however, it
also means that our prices may increase if market
conditions warrant.



# 1.5 mm<sup>2</sup> (16AWG) High Flex Control Cable CF10 Series Shielded

1.5 mm² (16AWG) N	Multi-Conductor High Flex C	ontrol Cable Spe	cifications (Shielded)		
Conductors Gauge & Stranding	1.5 mm² (16AWG) 80/0.15 mm² bare copper	Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4		
Voltago Datingo	300/500V per UL	Inner Jacket	Tan TPE		
Voltage Ratings	Tested to 2000V	Outer Jacket	Slate Gray TPE		
	e-Chain®**, 5.0 x diameter	UV Resistance	Yes		
Min. Bend Radius	Flexible*, 4.0 x diameter	Oil Resistance	Yes		
	Fixed, 3.0 x diameter	Flame Retardant	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1		
	e-Chain, -31°F to +212°F (-35°C to +100°C) Silicone-free		Yes		
Temperature Ratings	Flexible*, -49°F to +212°F (-45°C to +100°C) Fixed, -58°F to +212°F (-50°C to +100°C)		UL/CSA Style 11113 and 2570, 600V, 80°C NFPA 79; Following NFPA 79-2012 chapter		
			12.9		
May Valasity	Unsupported, 33 ft/s (10 m/s)		EAC; Certified to no. TC RU C-DE.		
Max. Velocity	Gliding, 19.6 ft/s (6 m/s)		ME77.B.01254 CTP; Certified to no. C-DE. PB49.B.00416		
Max. Acceleration	328.08 ft/s² (100 m/s²)	Approvals	Lead Free; Following 2011/65/EU (RoHS-II) CEI; Following CEI 20-35 Clean Room; According to ISO Class 2, material/cable tested by IPA According to ISO standard 14644-1 CE; Following 2014/35/EU		
Length of Travel	Unsupported travel distances and for gliding applications up to 328ft (100m)	On and a British I amend	igus chainflex CF6.xx.xx (xxGxx)C 300/500V E310776 C cRUus AWM Style 2570 VW-1		
Conductor Insulation	Black PVC with green/yellow ground	Sample Print Legend	AWM I/II A/B 80+C 600V FT1 EAC / CTP CE xx/x RoHS-II conform www.igus.de		

<sup>\*</sup> Per EN 60811-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

1.5 mm² (16AWG) Multi-Conductor High Flex Control Cable (Shielded)							
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum 0.D. (Inches ±10%)	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per Foot
						i	gus chainfle
<u>CF10-UL-15-04-1</u>	4	1.5 mm² (16AWG)	80	0.37	20	0.13	\$7.70
						is	us chainflex
<u>CF10-UL-15-05-1</u>	5	1.5 mm² (16AWG)	80	0.51	20	0.15	\$8.81

<sup>\*</sup> For 7 conductor cable with travel distance ≥ 5m (16.4ft) requires bending radius ≥ 17 x diameter





Please Note: Our prices on
Flexing Control Cable are closely tied to the
market price for copper. This allows us to offer the best
savings possible if conditions are favorable; however, it
also means that our prices may increase if market
conditions warrant.

<sup>\*\*</sup> For 7 conductor cable with travel distance ≥ 5m (16.4ft) requires bending radius ≥ 17 x diameter

<sup>\*\*</sup> See web store for maximum cut lengths