



CAMERA LINK MACHINE VISION CABLES

PART NUMBER REFERENCE



Select Connector Type: End "1"

MDR Male Straight Exit = 1	MDR Male Exit LEFT w/Recessed Screws = 11
MDR Female Straight Exit = 2	HDR / SDR Female Straight Exit = 12
MDR Male Low Profile R/A Exit UP = 3	MDR Male R/A UP 135° Exit LEFT = 13
MDR Male Low Profile R/A Exit DWN = 4	MDR Male R/A DWN 135° Exit LEFT = 14
HDR / SDR Male Straight Exit = 5	14P HDR / SDR PoCL Lite Straight Exit w/Recessed Screws = 15
HDR / SDR Male R/A Exit UP w/Recessed Screws = 6	MDR Latch Type Straight Exit = 16
HDR / SDR Male R/A Exit DOWN w/Recessed Screws = 7	HDR / SDR Male Exit RIGHT w/Recessed Screws = 17
MDR Male Ext. Profile R/A Exit UP = 8	HDR / SDR Male Exit LEFT w/Recessed Screws = 18
MDR Male Ext. Profile R/A Exit DWN = 9	HDR / SDR Male R/A UP Ext. Profile w/Recessed Screws = 19
MDR Male Exit RIGHT w/Recessed Screws = 10	HDR / SDR Male R/A DWN Ext. Profile w/Recessed Screws = 20

Cable Type Options:

HIFLEX (Robotic / C-Track) = 1	30 AWG (Robotic / C-Track) = 3	PoCL Lite = 5
HIFLEX PoCL (Robotic / C-Track) = 2	30 AWG PoCL (Robotic / C-Track) = 4	

Select Connector Type: End "2"

MDR Male Straight Exit = 1	MDR Male Exit LEFT w/Recessed Screws = 11
MDR Female Straight Exit = 2	HDR / SDR Female Straight Exit = 12
MDR Male Low Profile R/A Exit UP = 3	MDR Male R/A UP 135° Exit LEFT = 13
MDR Male Low Profile R/A Exit DWN = 4	MDR Male R/A DWN 135° Exit LEFT = 14
HDR / SDR Male Straight Exit = 5	14P HDR / SDR PoCL Lite Straight Exit w/Recessed Screws = 15
HDR / SDR Male R/A Exit UP w/Recessed Screws = 6	MDR Latch Type Straight Exit = 16
HDR / SDR Male R/A Exit DOWN w/Recessed Screws = 7	HDR / SDR Male Exit RIGHT w/Recessed Screws = 17
MDR Male Ext. Profile R/A Exit UP = 8	HDR / SDR Male Exit LEFT w/Recessed Screws = 18
MDR Male Ext. Profile R/A Exit DWN = 9	HDR / SDR Male R/A UP Ext. Profile w/Recessed Screws = 19
MDR Male Exit RIGHT w/Recessed Screws = 10	HDR / SDR Male R/A DWN Ext. Profile w/Recessed Screws = 20

Option: Length in Meters

Physical:

Cable Color:	Black
Shell Color:	Black
Shell Construction:	Pre-molded in Polyethylene, fully shielded and over-molded in black PVC.
Cable Construction:	Meets Automated Imaging Association Camera Link Standard. Skew-within pair: 35 ps/m max Skew-channel skew per chipset: 50 ps/m max. All cables are Camera Link approved.

Temp: 8-14-19

CONNECTOR TYPE OPTIONS:

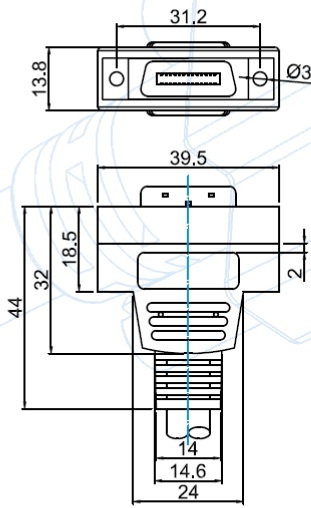


* Connector #12 & 16 are ONLY compatible with cable types 3 & 4.

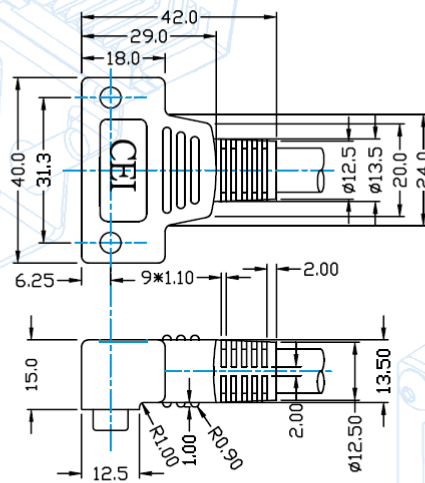
** Cable type 5 is ONLY compatible with connector #15.

See pages 4 – 5 for profile drawings.

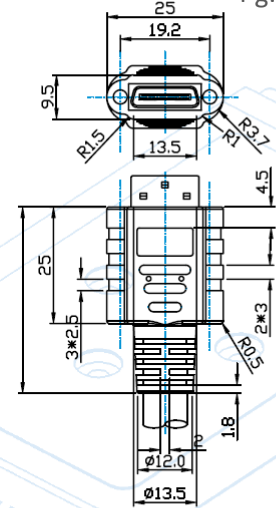
Temp:
8-14-19



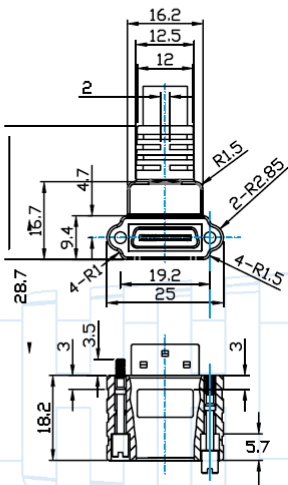
PROFILES 1 & 2



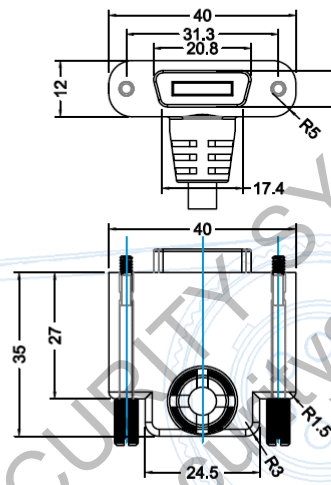
PROFILES 3 & 4



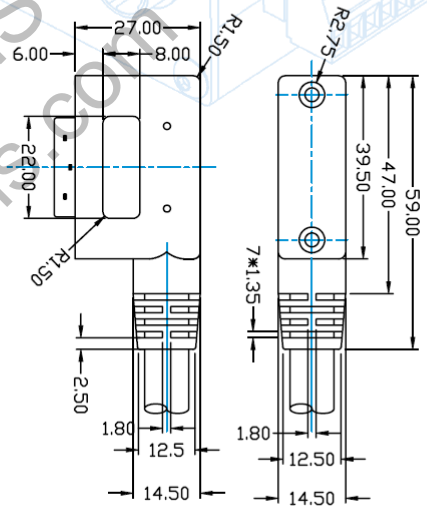
PROFILE 5



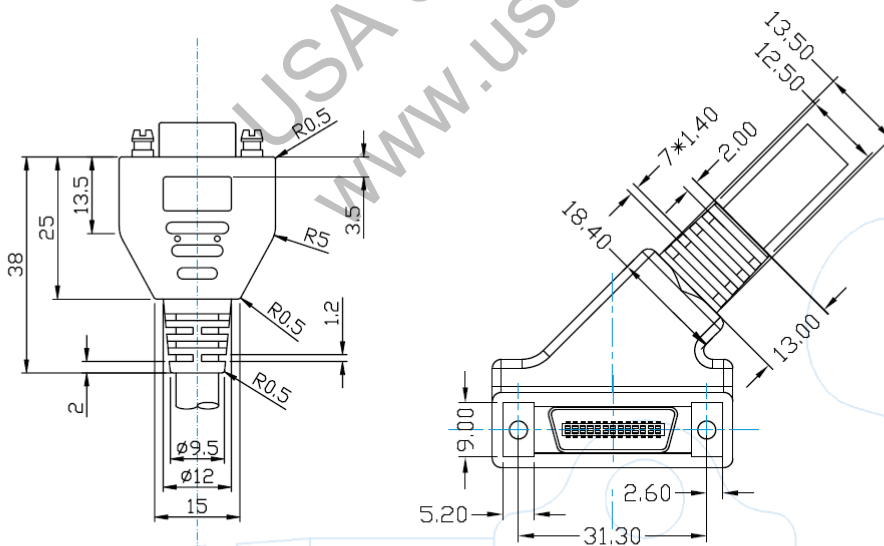
PROFILES 6 & 7



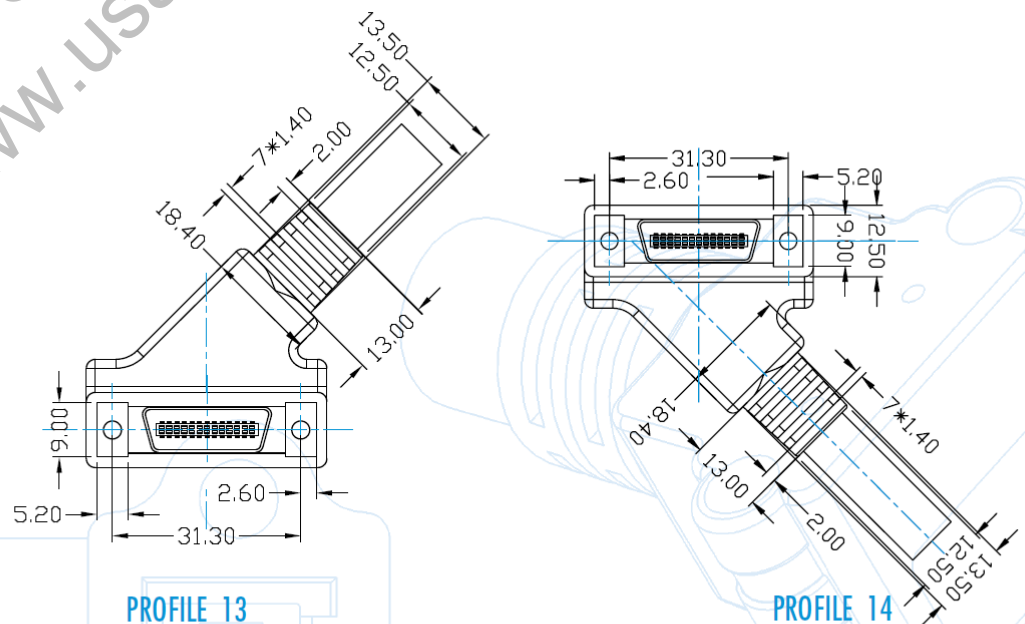
PROFILES 8 & 9



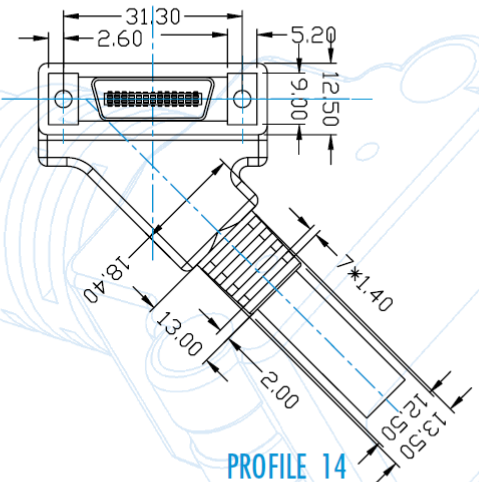
PROFILES 10 & 11



PROFILE 12

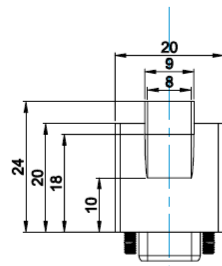


PROFILE 13

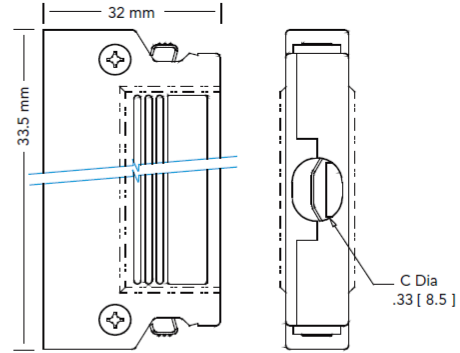


PROFILE 14

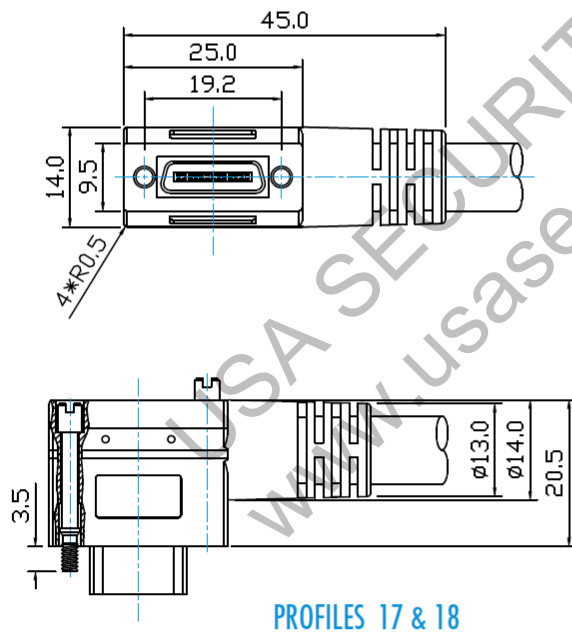
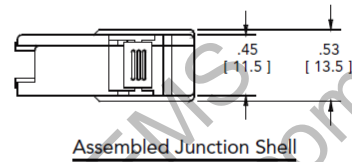
Temp: 8-14-19



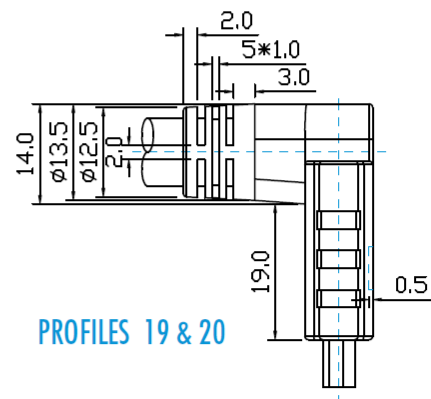
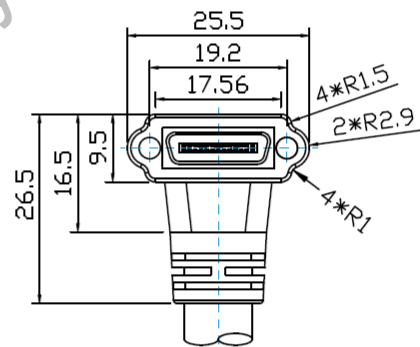
PROFILE 15



PROFILE 16



PROFILES 17 & 18

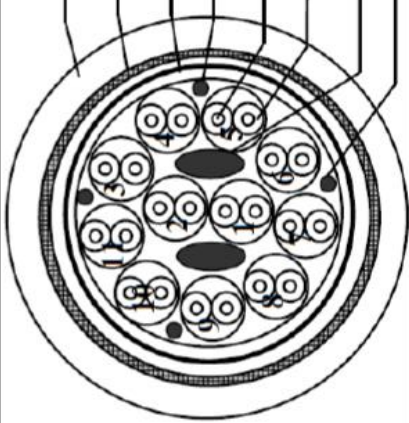


PROFILES 19 & 20

Temp: 8-14-19

MVC-Cable Type #: 1

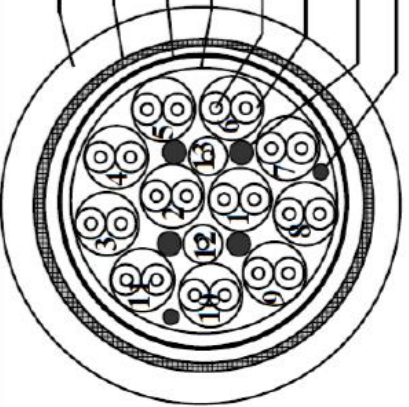
Please Note that Cable Type #: 2 (pg. 2) may be substituted for Cable Type #: 1, For non-PoCL assemblies.

SPECIFICATION: [(1P*28#+AL)*11C+4D+ FEP tape + Free-edge-AL-MYLAR +B		CONSTRUCTION	D.W.G
ITEM	SPECIFICATION	 COLOUR CODE: (1P-AL)*11C: 1.white*white black 2. white*white/red 3. white*white/green 4. white*white/blue 5. white*white/purple 6. white*white/gray 7. white*white/yellow 8. white*white/orange 9. white*white/brown 10. white/blue*white/green 11. white/black*white/red	
CONDUCTOR	AWG MATERIAL COND.SIZE		
INSULATION	MIN.AVG.THICK		
	MATERIAL		
	O . D		
	COVERGE		
Face Outside AL.Mylar	OVERLAP		
DRAIN	N O.		
	AWG		
	MATERIAL		
	SIZE		
FEP tape	COVERGE	机(機)器人 / 拖链 MINIMUM BEND RADIUS: 10X O.D. COMPONENTS EXPRESS, INC. 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517  2065940066 (E0755-1) 8/8/19	
Free-edge-AL-MYLAR	OVERLAP		
DRAIN	AWG		
	MATERIAL		
	SIZE		
	MATERIAL		
BRAID	COVERGE		
COPPER	OVERLAP		
JACKET	AWG		
	MATERIAL		
	COLOUR		
	O . D		
ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES OF JACKET	
1. Rating : TEMP 80°C ; VOLTAGE 30V 2. Conductor Resistance: at 20°C MAX 28AWG: 237.25Ω.km; 3. Insulation Resistance: 100MΩ.km min at 20°C 4. Dielectric Strength: AC 500V/1 minute no breakdown. 5. Impedance: 100±10Ω 6. Time Delay Skew: within a pair(max) 50ps/M; 7. Delay Max 5.20ns/m		1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min 2. Elongation: Unaged: 100% min Aged: 65% 3. Heat shock test: NO CRACKING 4. Cold bend test: NO CRACKING 5. Deformation test: MAX 50% 6. Flame test: PASS VW-1	
APPROVED		CUSTOMER	
CHECKED		REV	A
DRAWING	CH/J	DATE	16/11/03

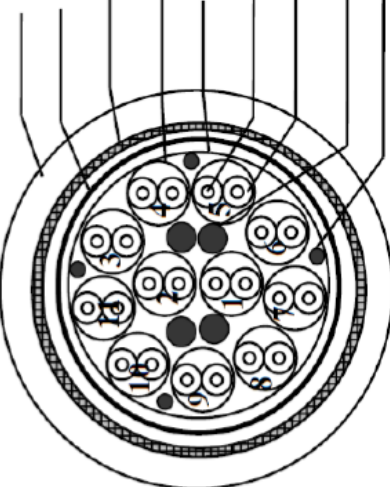
CC-EW-206A

MVC-Cable Type #: 2

Please Note that Cable Type #: 2 (pg. 2) may be substituted for Cable Type #: 1, For non-PoCL assemblies.

SPECIFICATION: (1P*28#+AL)*11C+2C*24#+2D+ FEP tape + Free-edge-AL-MYLAR +B			CONSTRUCTION	D.W.G
ITEM	SPECIFICATION		 COLOUR CODE: (1P+AL)*11C: 1.white*white/black 2. white*white/red 3. white*white/green 4. white*white/blue 5. white*white/purple 6. white*white/gray 7. white*white/yellow 8. white*white/orange 9. white*white/brown 10. white/blue*white/green 11. white/black*white/red 2C*24#: 12. red 13. black	
CONDUCTOR	AWG	28AWG		
	MATERIAL	TINNED COPPER		
	COND.SIZE	19/0.08±0.008 mm		
	MIN.AVG.THICK	0.25 mm		
INSULATION	MATERIAL	FM-PE+SKIN		
	O . D	1.02±0.05 mm		
Face Outside AL.Mylar	COVERAGE	100%		
	OVERLAP	25% MIN		
	N.O.	(1P+AL)*11C		
DRAIN	AWG	24AWG	机(機)器人 / 拖链 MINIMUM BEND RADIUS: 10X O.D. COMPONENTS EXPRESS, INC. 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517 206594006900 8/8/19 APPROVED CHECKED DRAWING CUSTOMER REV DATE 16/11/03 CC-EW-206A	
	MATERIAL	TINNED COPPER		
	SIZE	19/0.127±0.008 mm		
FEP tape	COVERAGE	100%		
	OVERLAP	25% MIN		
Free-edge-AL-MYLAR	COVERAGE	100%		
	OVERLAP	25% MIN		
	AWG	/		
DRAIN	MATERIAL	/		
	SIZE	/		
BRAID	MATERIAL	TINNED COPPER		
COPPER	SIZE	24*10/0.12±0.008 mm		
	MIN.AVG.THICK	0.51 mm		
JACKET	MATERIAL	HALF MATT PVC		
	COLOUR	UL813		
	O . D	9.50 ± 0.20 mm		
ELECTRICAL CHARACTERISTICS			PHYSICAL PROPERTIES OF JACKET	
1. Rating : TEMP -80°C ; VOLTAGE 30V			1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min	
2. Conductor Resistance: at 20°C MAX 28AWG: 237.25Ω/km; 24AWG: 93.25Ω/km			2. Elongation: Unaged: 100% min Aged: 65%	
3. Insulation Resistance: 28AWG 100MΩ-km min at 20°C 24AWG 10MΩ-km min at 20°C			3. Heat shock test: NO CRACKING	
4. Dielectric Strength: AC 500V/minute no breakdown.			4. Cold bend test: NO CRACKING	
5. Impedance: 100±10Ω			5. Deformation test: MAX 50%	
6. Time Delay Skew: within a pair(max) 50ps/M;			6. Flame test: PASS VW-1	
7. Delay Max 5.20ns/m				

MVC-Cable Type #: 3

SPECIFICATION:		(1P*30#+AL)*11C+4D+ FEP tape + Free-edge-AL-MYLAR +B		CONSTRUCTION	D.W.G
ITEM		SPECIFICATION			
CONDUCTOR	AWG	30AWG			
	MATERIAL	TINNED COPPER			
	COND.SIZE	19/0.06± 0.008 mm			
INSULATION	MIN.AVG.THICK	0.25 mm			
	MATERIAL	FM-PE+SKIN			
	O . D	0.79± 0.05 mm			
Face Outside AL_Mylar	COVERAGE	100%			
	OVERLAP	25% MIN			
	N.O.	(1P+AL)*11C			
DRAIN	AWG	28AWG			
	MATERIAL	TINNED COPPER			
	SIZE	19/0.08± 0.008 mm*4PCS			
FEP tape	COVERAGE	100%			
	OVERLAP	25% MIN			
	COVERAGE	100%			
Free-edge-AL-MYLAR	OVERLAP	25% MIN			
	AWG	/			
	MATERIAL	/			
DRAIN	SIZE	/			
	MATERIAL	/			
	SIZE	/			
BRAID COPPER	MATERIAL	TINNED COPPER			
	SIZE	16*11/0.12±0.008 mm			
	MIN.AVG.THICK	0.51 mm			
JACKET	MATERIAL	MATT PVC			
	COLOUR	UL813			
	O . D	8.00 ± 0.30 mm			
ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES OF JACKET			
1. Conductor Resistance: at 20°C MAX 30AWG: 376.96Ω km; 2. Insulation Resistance: 10MΩ-km min at 20°C dc 500V (EIA-364-21) 3. Dielectric Strength: AC 500V/1 minute no breakdown. (EIA-364-20) 4. Impedance: 100±10Ω		1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min			
		2. Elongation: Unaged: 100% min Aged: 65%			
		3. Heat shock test: NO CRACKING			
		4. Cold bend test: NO CRACKING			
		5. Deformation test: MAX 50%			
		6. Flame test: PASS VW-1			
		MINIMUM BEND RADIUS: 10X O.D.			
		机(機)器人 / 拖链			
		 COMPONENTS EXPRESS, INC. 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517			
		96599030004 8/8/19			
		APPROVED		CUSTOMER	
		CHECKED		REV	A
		DRAWING	CWJ	DATE	16.12.10
		CC-EW-206A			

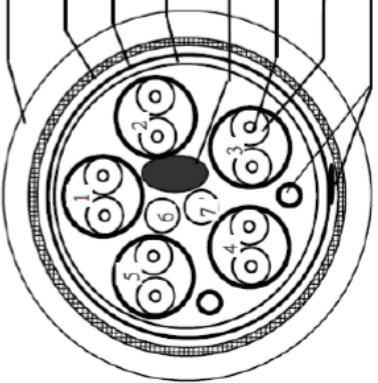
MVC-Cable Type #: 4

SPECIFICATION:		(1P*30#+AL)*11C+2C*28#+2D+ FEP tape +M +AL+B	
ITEM		SPECIFICATION	
CONDUCTOR	AWG	30AWG	28AWG
	MATERIAL	TINNED COPPER	TINNED COPPER
	COND.SIZE	19/0.06± 0.008 mm	19/0.08± 0.008 mm
INSULATION	MIN.AVG.THICK	0.20 mm	0.10 mm
	MATERIAL	FM-PE+SKIN	SR-PVC
	O . D	0.78± 0.05 mm	0.65± 0.05 mm
Face Outside AL.Mylar	COVERAGE	100%	/
	OVERLAP	25% MIN	/
	N.O.	(1P+AL)*11C	2C
DRAIN	AWG	28AWG	28AWG
	MATERIAL	TINNED COPPER	TINNED COPPER
	SIZE	19/0.08± 0.008 mmx2PCS	19/0.08± 0.008 mmx2PCS
FEP tape	COVERAGE	100%	100%
Mylar	COVERAGE	100%	100%
	OVERLAP	25% MIN	25% MIN
Face Outside AL.Mylar	COVERAGE	100%	100%
	OVERLAP	25% MIN	25% MIN
DRAIN	MATERIAL	/	/
	SIZE	/	/
BRAID	MATERIAL	TINNED COPPER	TINNED COPPER
COPPER	SIZE	16*11/0.12± 0.008 mm	16*11/0.12± 0.008 mm
	MIN.AVG.THICK	0.51 mm	0.51 mm
JACKET	MATERIAL	MATT PVC	MATT PVC
	COLOUR	UL813 BLACK	UL813 BLACK
	O . D	7.60 ± 0.20 mm	7.60 ± 0.20 mm
ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES OF JACKET	
1. Conductor Resistance: at 20°C MAX 30AWG: 376.96Ω/km; 28AWG: 237.25Ω/km;		1.Tensile Strength: Unaged: 1500PSI min Aged: 70% min	
2. Insulation Resistance: 30AWG 100MΩ-km min at 20°C dc 500V 28AWG 10MΩ-km min at 20°C dc 500		2. Elongation: Unaged: 100% min Aged: 65%	
3. Dielectric Strength: AC 500V/1minute no breakdown.		3. Heat shock test: NO CRACKING	
4. Impedance: 100±10Ω		4. Cold bend test: NO CRACKING	
5.Time Delay Skew: within a pair(max) 50ps/M;		5. Deformation test: MAX 50%	
		6. Flame test: PASS VW-1	

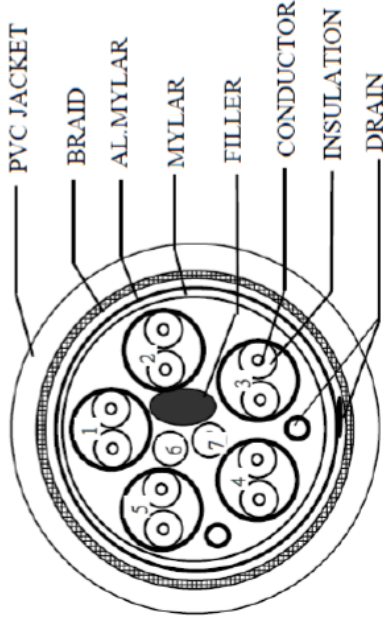
CONSTRUCTION	D.W.G
	PVC JACKET FEP tape BRAID AL.Mylar Mylar CONDUCTOR INSULATION FILLER DRAIN
COLOUR CODE:	
(1P+AL)*11C: 1.white*white/black 2. white*white/red 3. white*white/green 4. white*white/blue 5. white*white/purple 6. white*white/gray 7. white*white/yellow 8. white*white/orange 9. white*white/brown 10. white blue*white/green 11. white/black*white/red 2C*28#: 12.black 13.red	
机(機)器人 / 拖链	
MINIMUM BEND RADIUS: 10X O.D.	
COMPONENTS EXPRESS, INC. 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517	
96599261002 8/8/19	
APPROVED	CUSTOMER
CHECKED	REV A
DRAWING	CWJ
DATE	2017.02.15

MVC-Cable Type #: 5

SPECIFICATION:		(1P*30# +AL)*5C+2C*30# +2D+M+AL+B	
ITEM	SPECIFICATION		
CONDUCTOR	AWG	30AWG	30AWG
	MATERIAL	TINNED COPPER	TINNED COPPER
	COND.SIZE	7/0.10±0.008 mm	7/0.10± 0.008 mm
INSULATION	MIN.AVG.THICK	0.18 mm	0.10 mm
	MATERIAL	FM-PE+SKIN	SR-PVC
	O . D	0.72±0.06 mm	0.60± 0.05 mm
DRAIN	N O.	1P* 5C	2C
	AWG		/
	MATERIAL		/
FACE INSIDE AL.Mylar	SIZE		/
	COVERAGE	100%	/
	OVERLAP	25%MIN	/
MYLAR	COVERAGE	/	/
	OVERLAP	/	/
	MATERIAL	TINNED COPPER	
DRAIN	SIZE	7/0.127± 0.008 mm*2PCS	
	COVERAGE	100%	
	OVERLAP	25%MIN	
Face outside AL.Mylar	COVERAGE	100%	
	OVERLAP	25%MIN	
	MATERIAL	TINNED COPPER	
BRAID	SIZE	16*10/0.10± 0.008 mm 7PCH 90%MIN	
	MIN.AVG.THICK	0.51 mm	
	MATERIAL	MATT PVC	
JACKET	COLOUR	UL813 BLACK	
	O . D	5.50± 0.20 mm	
	ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES OF JACKET
1. Rating: TEMP: 80°C VOLTAGE: 30V		1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min	
2. Conductor Resistance: at 20°C MAX 30AWG: 376.96Ω/km		2. Elongation: Unaged: 100% min Aged: 65%	
3. Insulation Resistance: 30# SR 100MO-4km min at 20°C dc 500V (EIA-364-21)		3. Heat shock test: NO CRACKING	
30# FM-PE-SKIN 100MO-4km min at 20°C dc 500V (EIA-364-21)		4. Cold bend test: NO CRACKING	
4. Dielectric Strength: AC 500V/1minute no breakdown. (EIA-364-20)		5. Deformation test: MAX 50%	
5. Impedance: Pairs(differential mode) 100±10Ω		6. Flame test: PASS VW-1	
6. Delay Skew: 50ps/m			

CONSTRUCTION		D.W.G
		
COLOUR CODE:		
5P*30AWG: 1. WHITE*WHITE/BLACK 2. WHITE*WHITE/RED 3. WHITE*WHITE/GREEN 4. WHITE*WHITE/BLUE 5. WHITE*WHITE/PURPLE 2C*30AWG: 6. BLACK 7. RED		
MINIMUM BEND RADIUS: 10X O.D.		
 COMPONENTS EXPRESS, INC. 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517		
96595230002 8/8/19		
APPROVED		CUSTOMER
CHECKED		REV
DRAWING	CWJ	DATE
		2017.02.16

CONSTRUCTION D.W.G



COLOUR CODE:

5P*30AWG: 1. WHITE*WHITE/BLACK 2. WHITE*WHITE/RED
 3. WHITE*WHITE/GREEN 4. WHITE*WHITE/BLUE
 5. WHITE*WHITE/PURPLE
 2C*30AWG: 6. BLACK 7. RED

MINIMUM BEND RADIUS: 10X O.D.



COMPONENTS EXPRESS, INC.
 10330 Argonne Woods Drive, Ste 100
 Woodridge, IL 60517

96595230002 8/8/19

APPROVED

CUSTOMER

CHECKED

REV

DRAWING

CWJ

DATE

2017.02.16