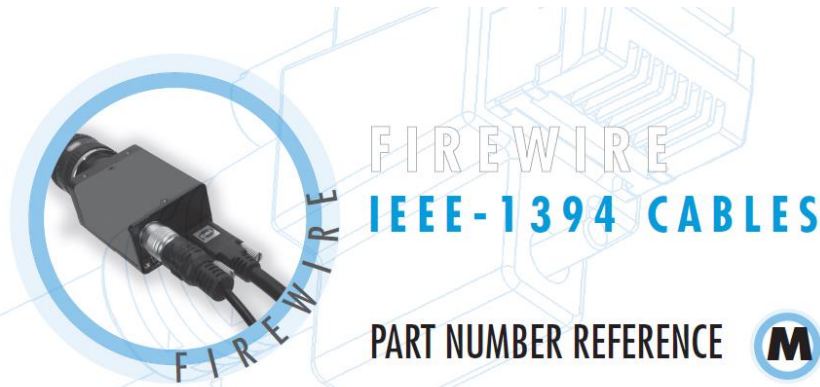


For more information please contact:

BOCK OPTRONICS INC.14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804

sales@bockoptronics.cawww.bockoptronics.ca**PART NUMBER REFERENCE****Select Connector Type: End "1"**

1394b 9 Pin w/Thumbscrews = 1	1394b R/A UP w/Recessed Screws = 11
1394b 9 Pin Friction Fit = 2	1394b R/A DOWN w/Recessed Screws = 12
1394a 6 Pin w/Thumbscrews = 3	1394b 9 Pin Exit RIGHT w/Screw = 13
1394a 6 Pin Friction Fit = 4	1394b 9 Pin Exit LEFT w/Screw = 14
1394a 6 Pin w/Latches = 5	1394a 6 Pin R/A (Cable Exit Pin 1) = 15
1394b 9 Pin R/A UP = 6	1394a 6 Pin R/A (Cable Exit Pin 6) = 16
1394b 9 Pin R/A DOWN = 7	1394a 6 Pin Female = 17
1394b 9 Pin Exit RIGHT = 8	1394a 6 Pin R/A (Cable Exit Pin 1) = 18
1394b 9 Pin Exit LEFT = 9	1394a 6 Pin R/A (Cable Exit Pin 6) = 19
1394b 9 Pin Female = 10	

Cable Type Options:

Standard Static Cable = 1
HIFLEX = 2
Extended Distance = 3
ROBOTIC = 4 *

Select Connector Type: End "2"

1394b 9 Pin w/Thumbscrews = 1	1394b R/A UP w/Recessed Screws = 11
1394b 9 Pin Friction Fit = 2	1394b R/A DOWN w/Recessed Screws = 12
1394a 6 Pin w/Thumbscrews = 3	1394b 9 Pin Exit RIGHT w/Screw = 13
1394a 6 Pin Friction Fit = 4	1394b 9 Pin Exit LEFT w/Screw = 14
1394a 6 Pin w/Latches = 5	1394a 6 Pin R/A (Cable Exit Pin 1) = 15
1394b 9 Pin R/A UP = 6	1394a 6 Pin R/A (Cable Exit Pin 6) = 16
1394b 9 Pin R/A DOWN = 7	1394a 6 Pin Female = 17
1394b 9 Pin Exit RIGHT = 8	1394a 6 Pin R/A (Cable Exit Pin 1) = 18
1394b 9 Pin Exit LEFT = 9	1394a 6 Pin R/A (Cable Exit Pin 6) = 19
1394b 9 Pin Female = 10	

Option: Length in Meters

- * Cable type 1: Suitable up to 4.5M
- * Cable type 2: Suitable up to 8M
- * Cable type 3: Suitable for 6 - 10M
- * Cable type 4: Is Not compatible w/Conn. Type: 5

Temp: 7-1-20

Physical:

Cable Color:	Black
Shell Color:	Black
Shell Construction:	Pre-molded in Polyethelene, fully shielded and over-molded in black PVC.
Cable Construction:	Meets industry S-400 and S-800 standards. All cables are fully certified.

CONNECTOR TYPE OPTIONS:



1394b 9 Pin
w/Thumbscrews



1394b 9 Pin
Friction Fit



1394a 6 Pin
w/Thumbscrews



1394a 6 Pin
Friction Fit



1394a 6 Pin
w/Latches



1394b 9 Pin
R/A UP



1394b 9 Pin
R/A DOWN



1394b 9 Pin
Exit RIGHT
Friction Fit



1394b 9 Pin
Exit LEFT
Friction Fit



1394b 9 Pin
Female
w/Removeable Hardware



1394b R/A UP
w/Recessed Screws



1394b R/A DOWN
w/Recessed Screws



1394b 9 Pin
Exit RIGHT
w/Recessed Screw



1394b 9 Pin
Exit LEFT
w/Recessed Screw



1394a 6 Pin R/A
(Cable Exit Pin 1)
Friction Fit



1394a 6 Pin R/A
(Cable Exit Pin 6)
Friction Fit



1394a 6 Pin
Female
Friction Fit



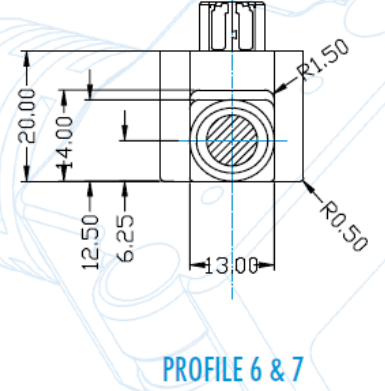
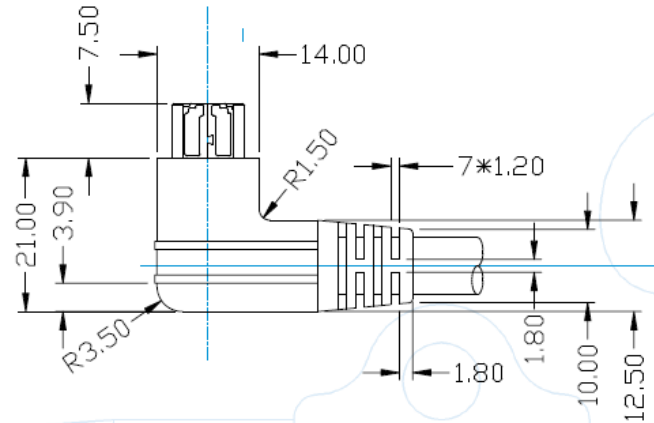
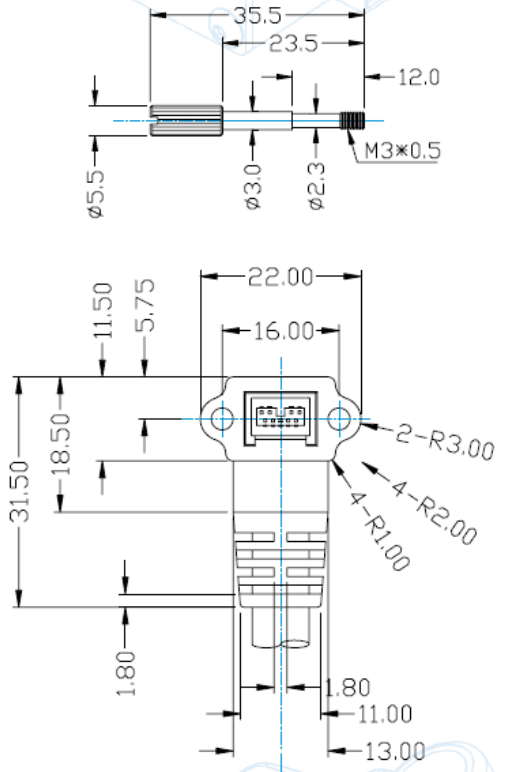
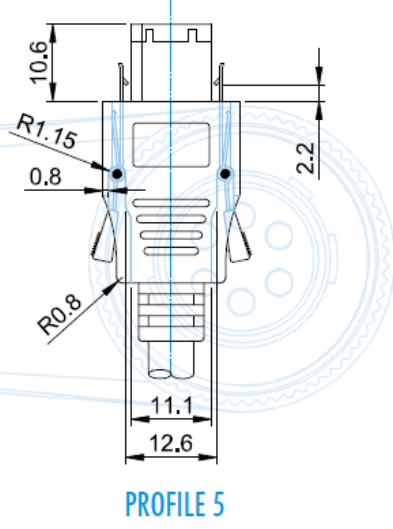
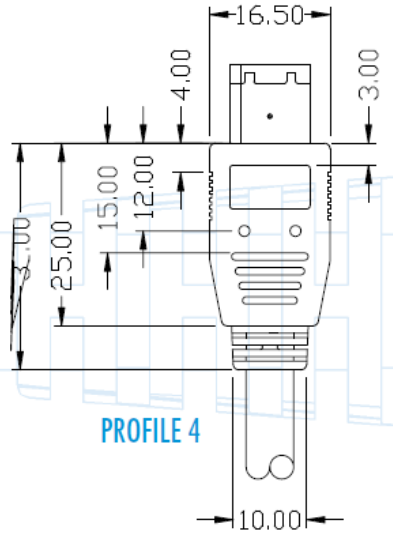
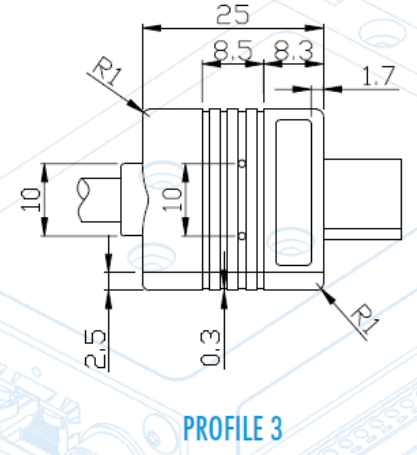
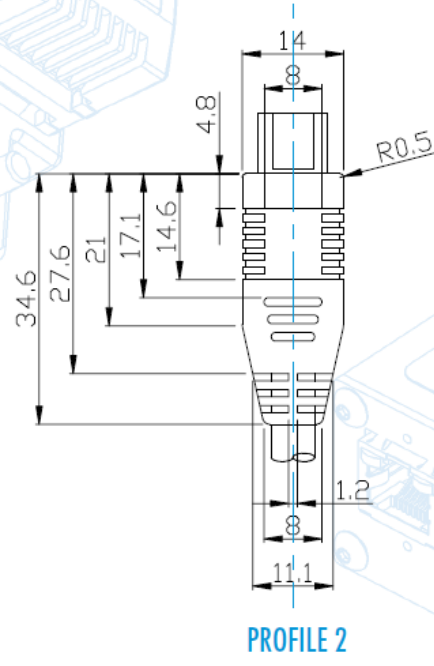
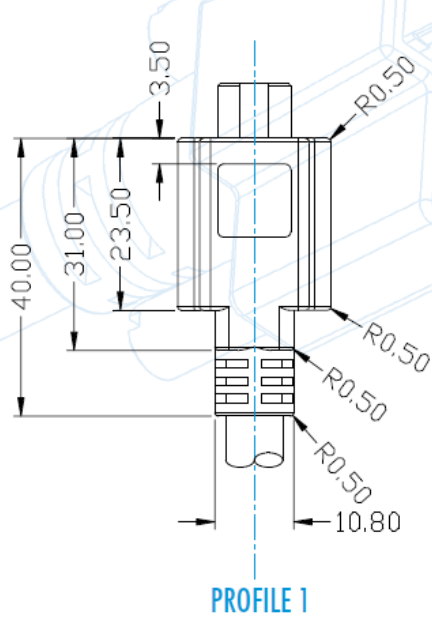
1394a 6 Pin R/A
(Cable exit Pin 1)
Friction Fit



1394a 6 Pin R/A
(Cable Exit Pin 6)
Friction Fit

See page 12 & 13 for profile drawings.

Temp: 7-1-20



Temp: 7-1-20



COMPONENTS EXPRESS, INC.
10330 Argonne Woods Drive,
Ste100 Woodridge, IL 60517

MVF Type #: 1

W977072903

Rev. A, 7/29/2008, 8/8/19

SPEC No.:	(19/0.1TA*1PR+2EAM)*2+ 19/0.16TA*2C+MAB 90% IEEE-1394b						
Customer		Customer NO.		8Code:	43120116	Sample NO:	W97072903
UL File NO.	E101344	UL Style:	UL 20279	Date:	7/29/08	Spec NO.	UD4V61RU11714FT7-H--
CSA File NO.	0	CSA Style:	0	Edition:	thirdly Edition	Operation NO:	0
Structure		Structure A			Structure B		
Conductors	Structure AWG	AWG	26# (19/38)			22# (19/34)	
	Material	--	Tinned Copper			Tinned Copper	
	O.D.	mm	0.49 Ref			0.785 Ref	
Insulation	Material	--	FOAM-PE			SR-PVC	
	Diameter	mm	1.45±0.09			1.20±0.07	
	Average Thickness	mm	0.480 Ref			0.208 Ref	
	Color	--	AS Color Code			AS Color Code	
Twist	Direction	--	Right (S)			--	
	Diameter	mm	2.90			--	
Shielding 1	Material	--	Free-edge-al-foil/mylar			--	
	Conductive Side	--	Inside			--	
	Overlap Rate	%	25 Ref			--	
Drain wire	Structure AWG	AWG	26# (19/38) *2PCS			--	
	Material	--	Tinned Copper			--	
Layer	Direction	--	Right (S)				
	Pitch	mm	80 Ref				
	Diameter	mm	5 Ref				
Shielding 3	Material	--	Free-edge-al-foil/mylar				
	Conductive Side	--	Outside				
	Overlap Rate	%	25				
Shielding 4	Shield	--	Braid				
	Material	--	Tinned Copper				
	Coverage Rate	%	95MIN				
Jacket	Material	--	PU				
	Diameter	mm	7.1 ± 0.19				
	Average Thickness	mm	0.78 Ref				
	Extrusion	--	Little Solid				
	Externals	--	Plane				
	Color	--	U209 (BLACK)				



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

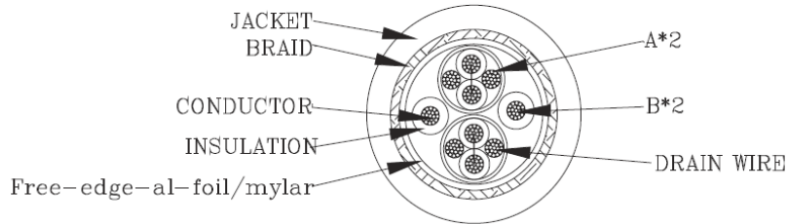
MVF Type #: 1

W977072903

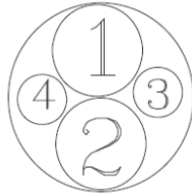
Rev. A, 7/29/2008, 8/8/19

SPEC No.:	(19/0.1TA*1PR+2EAM)*2+ 19/0.16TA*2C+MAB 90% IEEE-1394b						
Customer		Customer NO.		8Code:	43120116	Sample NO:	W97072903
UL File NO.	E101344	UL Style:	UL 20279	Date:	7/29/08	Spec NO.	UD4V61RU11714FT7-H--
CSA File NO.	0	CSA Style:	0	Edition:	thirdly Edition	Operation NO:	0
Structure		Structure A			Structure B		

MINIMUM BEND RADIUS: 10X O.D.



- COLOR CODE**
1. RED*GREEN
 2. ORANGE*BLUE
 3. WHITE(P579)
 4. BLACK(P570)





COMPONENTS EXPRESS, INC.
10330 Argonne Woods Drive,
Ste100 Woodridge, IL 60517

MVF Type #: 1

W977072903

Rev. A, 7/29/2008, 8/8/19

SPEC No.:	(19/0.1TA*1PR+2EAM)*2+ 19/0.16TA*2C+MAB 90% IEEE-1394b						
Customer		Customer NO.		8Code:	43120116	Sample NO:	W97072903
UL File NO.	E101344	UL Style:	UL 20279	Date:	7/29/08	Spec NO.	UD4V61RU11714FT7-H--
CSA File NO.	0	CSA Style:	0	Edition:	thirdly Edition	Operation NO:	0

Electric Characters

- 1.Voltage rating: 30V
- 2.Temperature rating: 80°C
- 3.Spark test : AC- 500V / 0.15 sec MIN.
4. Dielectric strength: AC- 750V/1sec MIN.
- 5.Insulation resistance : FOAM-PE,;DC-500V 100 MΩ/KM MIN. at 20°C
SR-PVC:DC-500V 10 MΩ/KM MIN. at 20°C
- 6.Conductor resistance : 26AWG-148Ω/KM MAX. at 20°C

Transmission Characters :

1.Attenuation:

Frequency (MHz)	400	800	1000
Attenuation (MAX) dB/2.0M	2.9	4.6	5.5

- 2.Impedance : 110±6Ω (Differential) TDR at 1 & 2.5ns
33±6Ω (Common mode)

- 3.Signal Pairs Propagation delay: ≤5.05ns/M MAX.
- 4.RiseTime ≤100ps
- 5.Intr-pair Skew ≤160ps
- 6.Crosstalk ≤3%

Physical Characters

- 1.Flame test of cable:
 - 1.1 :Cable Flame Test
- 2.Tensile strength test(before aging) :
 - 2.1 Sheath : > 1.05kg/mm²
 - 2.2 Insulation: > 2.11kg/mm² (SR-PVC)
- 3.Tensile strength test(after aging) :
 - 3.1 Sheath: > 70%
 - 3.2 Insulation : > 70% (SR-PVC)
- 4.Elongation(before aging) :
 - 4.1 Sheath: > 100%
 - 4.2 Insulation: > 100% (SR-PVC)
- 5.Elongation(after aging) :
 - 5.1 Sheath : > 65%
 - 5.2 Insulation : > 70%(SR-PVC)
- 6.Requirements for green environment protection : Accord with RoHS

Approval	Frend	Auditor	Joan	Producer	xiaojin
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COMPONENTS EXPRESS, INC.
10330 Argonne Woods Drive,
Ste100 Woodridge, IL 60517

MVF Type #: 2

W977072903

Rev. A, 7/29/2008, 8/8/19

SPEC No.:	(19/0.1TA*1PR+2EAM)*2+ 19/0.16TA*2C+MAB 90% IEEE-1394b						
Customer		Customer NO.		8Code:	43120116	Sample NO:	W97072903
UL File NO.	E101344	UL Style:	UL 20279	Date:	7/29/08	Spec NO.	UD4V61RU11714FT7-H--
CSA File NO.	0	CSA Style:	0	Edition:	thirdly Edition	Operation NO:	0
Structure		Structure A			Structure B		
Conductors	Structure AWG	AWG	26# (19/38)			22# (19/34)	
	Material	--	Tinned Copper			Tinned Copper	
	O.D.	mm	0.49 Ref			0.785 Ref	
Insulation	Material	--	FOAM-PE			SR-PVC	
	Diameter	mm	1.45±0.09			1.20±0.07	
	Average Thickness	mm	0.480 Ref			0.208 Ref	
	Color	--	AS Color Code			AS Color Code	
Twist	Direction	--	Right (S)			--	
	Diameter	mm	2.90			--	
Shielding 1	Material	--	Free-edge-al-foil/mylar			--	
	Conductive Side	--	Inside			--	
	Overlap Rate	%	25 Ref			--	
Drain wire	Structure AWG	AWG	26# (19/38) *2PCS			--	
	Material	--	Tinned Copper			--	
Layer	Direction	--	Right (S)				
	Pitch	mm	80 Ref				
	Diameter	mm	5 Ref				
Shielding 3	Material	--	Free-edge-al-foil/mylar				
	Conductive Side	--	Outside				
	Overlap Rate	%	25				
Shielding 4	Shield	--	Braid				
	Material	--	Tinned Copper				
	Coverage Rate	%	95MIN				
Jacket	Material	--	PU				
	Diameter	mm	7.1 ± 0.19				
	Average Thickness	mm	0.78 Ref				
	Extrusion	--	Little Solid				
	Externals	--	Plane				
	Color	--	U209 (BLACK)				



COMPONENTS EXPRESS, INC.
 10330 Argonne Woods Drive,
 Ste100 Woodridge, IL 60517

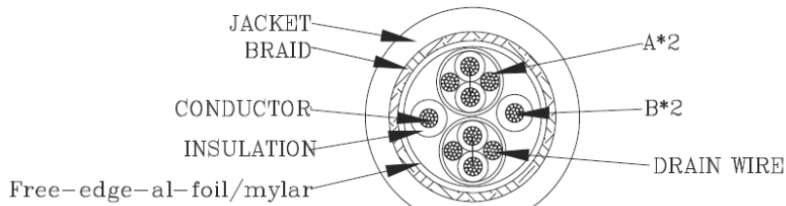
MVF Type #: 2

W977072903

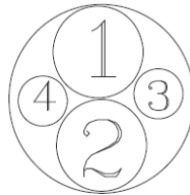
Rev. A, 7/29/2008, 8/8/19

SPEC No.:	(19/0.1TA*1PR+2EAM)*2+ 19/0.16TA*2C+MAB 90% IEEE-1394b						
Customer		Customer NO.		8Code:	43120116	Sample NO:	W97072903
UL File NO.	E101344	UL Style:	UL 20279	Date:	7/29/08	Spec NO.	UD4V61RU11714FT7-H--
CSA File NO.	0	CSA Style:	0	Edition:	thirdly Edition	Operation NO:	0
Structure		Structure A			Structure B		

MINIMUM BEND RADIUS: 10X O.D.



- COLOR CODE**
- 1.RED*GREEN
 - 2.ORANGE*BLUE
 - 3.WHITE(P579)
 - 4.BLACK(P570)





COMPONENTS EXPRESS, INC.
10330 Argonne Woods Drive,
Ste100 Woodridge, IL 60517

MVF Type #: 2

W977072903

Rev. A, 7/29/2008, 8/8/19

SPEC No.:	(19/0.1TA*1PR+2EAM)*2+ 19/0.16TA*2C+MAB 90% IEEE-1394b						
Customer		Customer NO.		8Code:	43120116	Sample NO:	W97072903
UL File NO.	E101344	UL Style:	UL 20279	Date:	7/29/08	Spec NO.	UD4V61RU11714FT7-H--
CSA File NO.	0	CSA Style:	0	Edition:	thirdly Edition	Operation NO:	0

Electric Characters

- 1.Voltage rating: 30V
- 2.Temperature rating: 80°C
- 3.Spark test : AC- 500V / 0.15 sec MIN.
4. Dielectric strength: AC- 750V/1sec MIN.
- 5.Insulation resistance : FOAM-PE,:DC-500V 100 MΩ/KM MIN. at 20°C
SR-PVC:DC-500V 10 MΩ/KM MIN. at 20°C
- 6.Conductor resistance : 26AWG-148Ω/KM MAX. at 20°C

Transmission Characters :

1.Attenuation:

Frequency (MHz)	400	800	1000
Attenuation (MAX) dB/2.0M	2.9	4.6	5.5

- 2.Impedance : 110±6Ω (Differential) TDR at 1 & 2.5ns
33±6Ω (Common mode)

- 3.Signal Pairs Propagation delay: ≤5.05ns/M MAX.

- 4.RiseTime ≤100ps

- 5.Intr-pair Skew ≤160ps

- 6.Crosstalk ≤3%

Physical Characters

1.Flame test of cable:

- 1.1 :Cable Flame Test

2.Tensile strength test(before aging) :

- 2.1 Sheath : > 1.05kg/mm²
- 2.2 Insulation: > 2.11kg/mm² (SR-PVC)

3.Tensile strength test(after aging) :

- 3.1 Sheath: >70%
- 3.2 Insulation : >70% (SR-PVC)

4.Elongation(before aging) :

- 4.1 Sheath: >100%
- 4.2 Insulation: >100% (SR-PVC)

5.Elongation(after aging) :

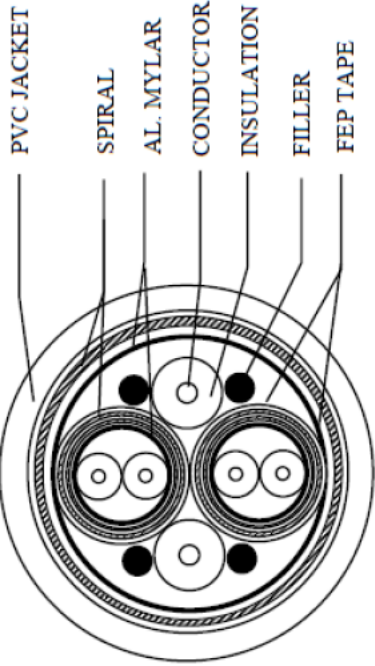
- 5.1 Sheath : >65%
- 5.2 Insulation : >70%(SR-PVC)

- 6.Requirements for green environment protection : Accord with RoHS

Approval	Frend	Auditor	Joan	Producer	xiaojin
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MVF-Cable Type #: 4

SPECIFICATION:		(1P*26AWG+AL+S+S+FEP TAPE)*2+2C*22AWG+AL+S+FEP TAPE	
ITEM	SPECIFICATION		
CONDUCTOR	AWG	26AWG	22AWG
	MATERIAL	BARE COPPER	TINNED COPPER
	COND.SIZE	19/0.10±0.008 mm	44/0.10±0.01 mm
	MIN.AVG.THICK	0.35 mm	0.35 mm
INSULATION	MATERIAL	FM-PE+SKIN	HD-PE
	O . D	1.30±0.05 mm	1.60 ± 0.05 mm
	N O.	/	/
Face outside	COVERAGE	100%	/
AL.MYLAR	OVERLAP	25% MIN	/
SPIRAL	MATERIAL	TINNED COPPER	/
COPPER	SIZE	84±2/0.10±0.008 mm	/
SPIRAL	MATERIAL	TINNED COPPER	/
COPPER	SIZE	94±2/0.10±0.008 mm	/
FEP TAPE	COVERAGE	100%	/
	OVERLAP	25% MIN	/
	N O.	1P*2	2C
Face outside	COVERAGE	100%	/
AL.MYLAR	OVERLAP	25% MIN	/
SPIRAL	MATERIAL	TINNED COPPER	/
COPPER	SIZE	154±3/0.10±0.008 mm	/
FEP TAPE	COVERAGE	100%	/
	OVERLAP	25% MIN	/
	MIN.AVG.THICK	0.38 mm	/
JACKET	MATERIAL	MATT CL2 PVC	/
	COLOUR	PURPLE	/
	O . D	8.30 ± 0.20 mm	/
<p>ELECTRICAL CHARACTERISTICS PHYSICAL PROPERTIES OF JACKET</p> <p>1. Range : TEMP : 80°C : VOLTAGE : 30V 2. Conductor Resistance: AT 20°C MAX 22AWG: 550/ks; 26AWG: 148.960/ks; 3. Impedance: 110±6 Ω 4. Crosstalk: ≤ -26dB(-75MHz) 5. Cable Delay: 5.03ns/m 6. Skew: ≤ 40ps/4.5m 7. Attenuation: 100MHz < 2.3dB 200MHz < 3.2dB 400MHz < 5.8dB/4.5m 8. Insulation Resistance: 100MΩ.km min at 20°C de 500V.(EIA-364-21) 9. Dielectric Strength, AC 500V/1minute no breakdown. (EIA-364-20)</p>			
<p>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</p>			



CONSTRUCTION **D.W.G**

COLOUR CODE:
 2P: 1P: RED * GREEN 2P: BLUE * ORANGE
 2C: 1. WHITE 2. BLACK

MINIMUM BEND RADIUS: 10X O.D.



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

96452282001 (E1005),

Updated 8/8/19

APPROVED	CUSTOMER
CHECKED	REV
DRAWING	DATE
<i>CWJ</i>	16/10/18

CC-EW-206A