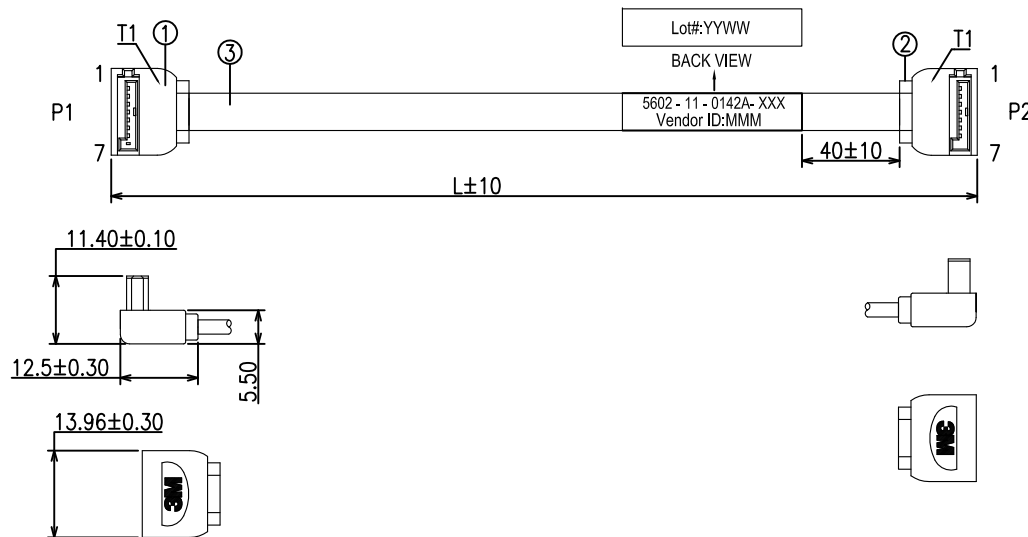


3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
A	ECO-0037492	05/09/11



NOTES :

- Regulatory Information.
RoHs compliant, See the regulatory information appendix(RIA) in the "RoHs compliance" section of WWW.3Mconnectors.com compliance information (RIA E1 & C1 apply)
- For custom cable length, contact 3M sales rep.
- Cable drawing : 78-5100-2414-0
- Product Specification: PS-0117.
- This unique cable construction has thin Aluminum inner layer exposed at each edge. users should assess the risk in their specific application. Insulating tape may be applied at the cable assembly level, as needed to cover this exposed edge in risk areas.
- PVC overmoulding and PE Inner moulding at both ends.
- Product meets SATA 3.0 signal integrity specifications.

PART NUMBER SELECTION

5602-11-0142A-XXX
Length in mm,000 refers to 1000mm.

3M PART NO.	L(MM)
5602-11-0142A-100	100
5602-11-0142A-200	200
5602-11-0142A-300	300
5602-11-0142A-400	400
5602-11-0142A-500	500
5602-11-0142A-600	600
5602-11-0142A-700	700
5602-11-0142A-800	800
5602-11-0142A-900	900
5602-11-0142A-000	1000

PIN OUT

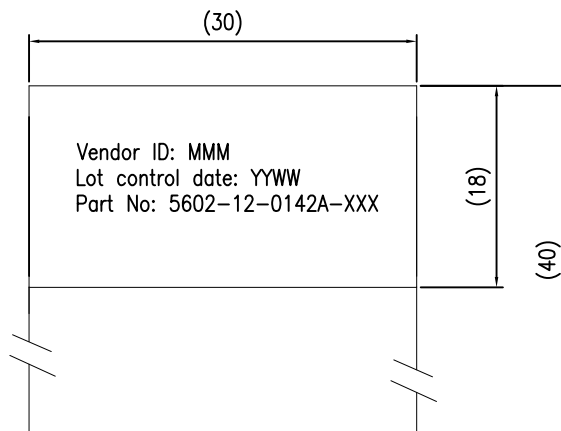
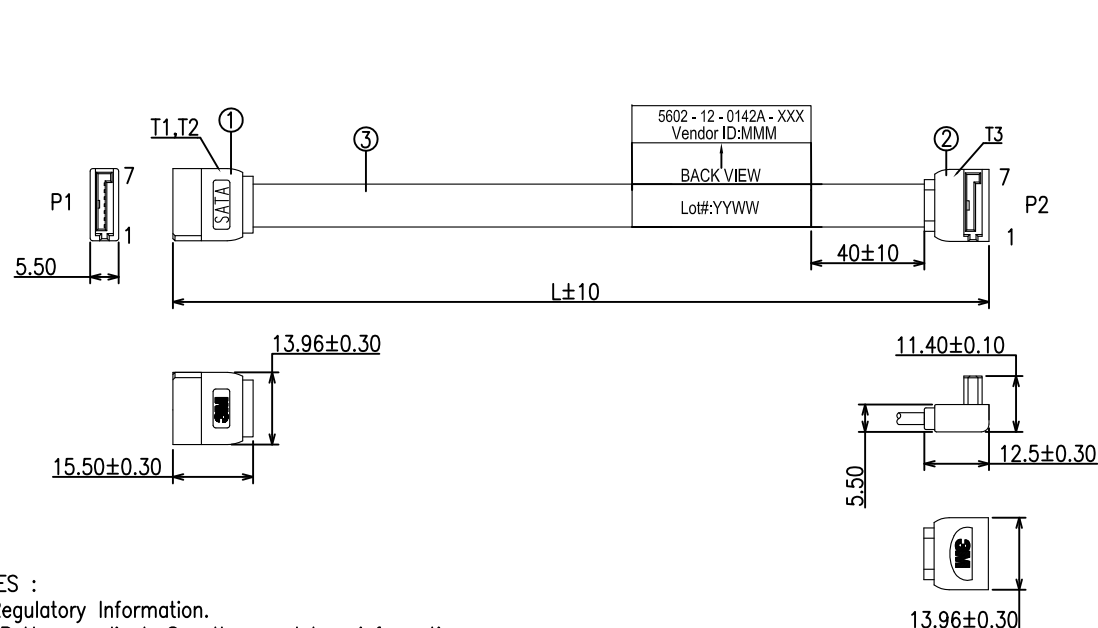
P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7

3	CABLE : RIBBON TWIN AX , SL8803/08, UL AWM 21008,150V,80C	1	PC
	SIGNAL -SILVER PLATED COPPER WITH 30 AWG.		
2	SATA CONN : 7P FEMALE 90° BLACK PBT30% 15*AU	1	PC
1	SATA CONN : 7P FEMALE 90° BLACK PBT30% 15*AU	1	PC
ITEM	SPECIFICATION	Q'TY	UNIT

UNIT: MM	DFTG RAD VITTAPALLI	DATE 05/12/11	3M APAC INNOVATION CENTRE		DIVISION ESD	STATUS RELEASE
GEN. TOLERANCES	CHKD RAD VITTAPALLI	DATE 05/12/11			MODEL	
LINEAR .0 = ± 0.25 .00 = ± 0.15 .000 = ± 0.05	APPVL ALAN ANG	DATE 05/12/11	TITLE SATA 7 PIN RIBBON TWINAX CABLE ASSEMBLY RIGHT ANGLE TO RIGHT ANGLE W/O LATCH			
ANGLE ±1°	THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.		SIZE A3	DRAWING NO. 78-5100-4897-8	REV A	
PROJECTION 			INTERPRET PER ASME Y14.5M-1994			
	CRITICAL DIMENSION: ▲		SCALE : NTS		DET LIST ☐ YES ☐ NO	SHT 1 of 6

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
REFER TO SHT 1 OF 6		



NOTES :

- Regulatory Information.
RoHs compliant, See the regulatory information appendix(RIA) in the "RoHs compliance" section of WWW.3Mconnectors.com compliance information (RIA E1 & C1 apply)
- For custom cable length, contact 3M sales rep.
- Cable drawing : 78-5100-2414-0
- Product Specification: PS-0117.
- This unique cable construction has thin Aluminum inner layer exposed at each edge. users should assess the risk in their specific application. Insulating tape may be applied at the cable assembly level, as needed to cover this exposed edge in risk areas.
- PVC overmoulding and PE Inner moulding at both ends.
- Product meets SATA 3.0 signal integrity specifications.

PART NUMBER SELECTION

5602-12-0142A-XXX
Length in mm,000 refers to 1000mm.

3M PART NO.	L(MM)
5602-12-0142A-100	100
5602-12-0142A-200	200
5602-12-0142A-300	300
5602-12-0142A-400	400
5602-12-0142A-500	500
5602-12-0142A-600	600
5602-12-0142A-700	700
5602-12-0142A-800	800
5602-12-0142A-900	900
5602-12-0142A-000	1000

PIN OUT

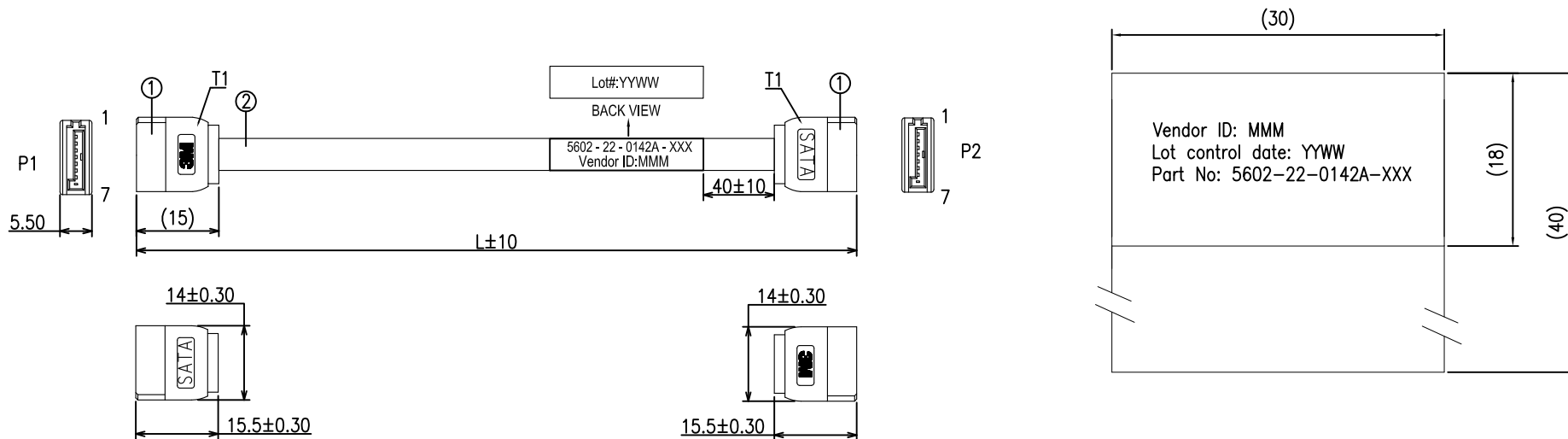
P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7

3	CABLE : RIBBON TWIN AX , SL8803/08, UL AWM 21008,150V,80C	1	PC
	SIGNAL -SILVER PLATED COPPER CONDUCTOR 30 AWG.		
2	SATA CONN : 7P FEMALE 90° BLACK PBT 30%GF 15°AU	1	PC
1	SATA CONN : 7P FEMALE 180° BLACK PBT 30%GF 15°AU	1	PC
ITEM	SPECIFICATION	Q'TY	UNIT

UNIT: MM	DFTG RAD VITTAPALLI	DATE 05/12/11	3M APAC INNOVATION CENTRE		DIVISION ESD	STATUS RELEASE
GEN. TOLERANCES	CHKD RAD VITTAPALLI	DATE 05/12/11			MODEL	
LINEAR .0 = ± 0.25 .00 = ± 0.15 .000 = ± 0.05	APPVL ALAN ANG	DATE 05/12/11	TITLE SATA 7 PIN RIBBON TWINAX CABLE ASSEMBLY STRAIGHT TO RIGHT ANGLE W/O LATCH			
ANGLE ±1°	THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.		SIZE A3	DRAWING NO. 78-5100-4897-8		REV A
PROJECTION 	INTERPRET PER ASME Y14.5M-1994		SCALE : NTS			
	CRITICAL DIMENSION: ▲		DET LIST ☐ YES ☐ NO		SHT 2 of 6	

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
REFER TO SHT 1 OF 6		



NOTES :

- Regulatory Information.
RoHs compliant, See the regulatory information appendix(RIA) in the "RoHs compliance" section of WWW.3Mconnectors.com compliance information (RIA E1 & C1 apply)
- For custom cable length, contact 3M sales rep.
- Cable drawing : 78-5100-2414-0
- Product Specification: PS-0117.
- This unique cable construction has thin Aluminum inner layer exposed at each edge. users should assess the risk in their specific application. Insulating tape may be applied at the cable assembly level, as needed to cover this exposed edge in risk areas.
- PVC overmoulding and PE Inner moulding at both ends.
- Product meets SATA 3.0 signal integrity specifications.

PART NUMBER SELECTION

5602-22-0142A-XXX
Length in mm,000 refers to 1000mm.

3M PART NO.	L(MM)
5602-22-0142A-100	100
5602-22-0142A-200	200
5602-22-0142A-300	300
5602-22-0142A-400	400
5602-22-0142A-500	500
5602-22-0142A-600	600
5602-22-0142A-700	700
5602-22-0142A-800	800
5602-22-0142A-900	900
5602-22-0142A-000	1000

PIN OUT

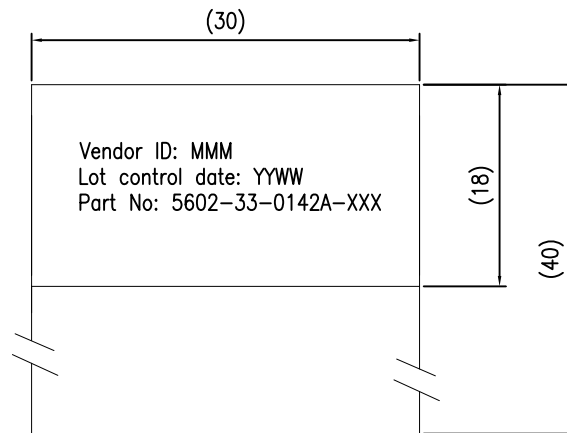
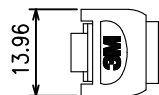
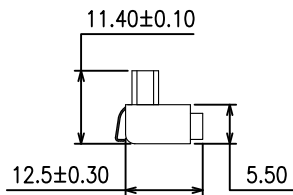
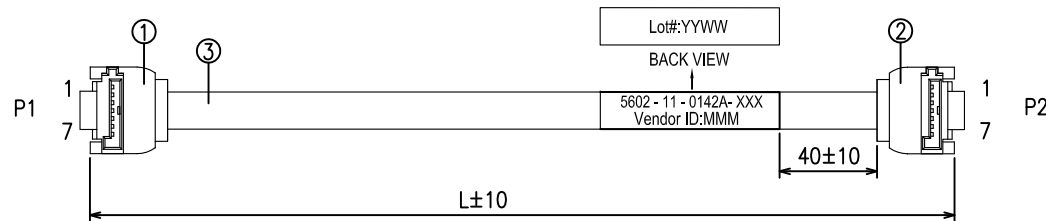
P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7

2	CABLE : RIBBON TWIN AX , SL8803/08, UL AWM 21008,150V,80C	1	PC
	SIGNAL -SILVER PLATED COPPER CONDUCTOR WITH 30 AWG.		
1	SATA CONN : 7P FEMALE 180° BLACK PBT 30GF , 15°AU	2	PCS
ITEM	SPECIFICATION	Q'TY	UNIT

UNIT: MM	DFTG RAD VITTAPALLI	DATE 05/09/11	3M APAC INNOVATION CENTRE		DIVISION ESD	STATUS	
GEN. TOLERANCES	CHKD RAD VITTAPALLI	DATE 05/12/11			MODEL _____	RELEASE	
LINEAR .0 = ± 0.25 .00 = ± 0.15 .000= ± 0.05	APPVL ALAN ANG	DATE 05/12/11	TITLE SATA 7 PIN RIBBON TWINAX CABLE ASSEMBLY STRAIGHT TO STRAIGHT W/O LATCH				
ANGLE ±1°	THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.						
PROJECTION 	INTERPRET PER ASME Y14.5M-1994		SIZE A3	DRAWING NO. 78-5100-4897-8			REV A
	CRITICAL DIMENSION: ▲		SCALE : NTS		DET LIST ☐ YES ☐ NO	SHT 3 of 6	

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
REFER TO SHT 1 OF 6		



NOTES :

- Regulatory Information.
RoHs compliant, See the regulatory information appendix(RIA) in the "RoHs compliance" section of WWW.3Mconnectors.com compliance information (RIA E1 & C1 apply)
- For custom cable length, contact 3M sales rep.
- Cable drawing : 78-5100-2414-0
- Product Specification: PS-0117.
- This unique cable construction has thin Aluminum inner layer exposed at each edge. users should assess the risk in their specific application. Insulating tape may be applied at the cable assembly level, as needed to cover this exposed edge in risk areas.
- PVC overmoulding and PE Inner moulding at both ends.
- Product meets SATA 3.0 signal integrity specifications.

PART NUMBER SELECTION

5602-33-0142A-XXX
Length in mm,000 refers to 1000mm.

3M PART NO.	L(MM)
5602-33-0142A-100	100
5602-33-0142A-200	200
5602-33-0142A-300	300
5602-33-0142A-400	400
5602-33-0142A-500	500
5602-33-0142A-600	600
5602-33-0142A-700	700
5602-33-0142A-800	800
5602-33-0142A-900	900
5602-33-0142A-000	1000

PIN OUT

P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7

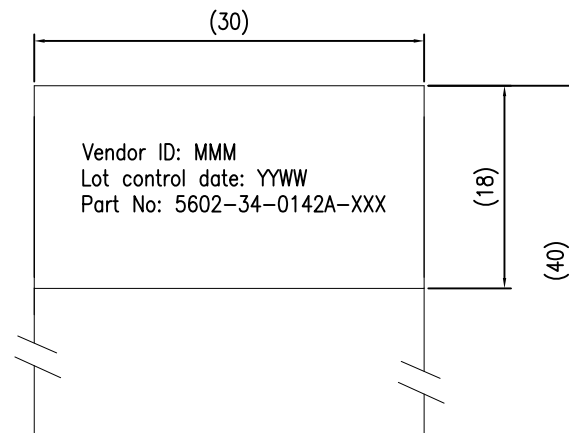
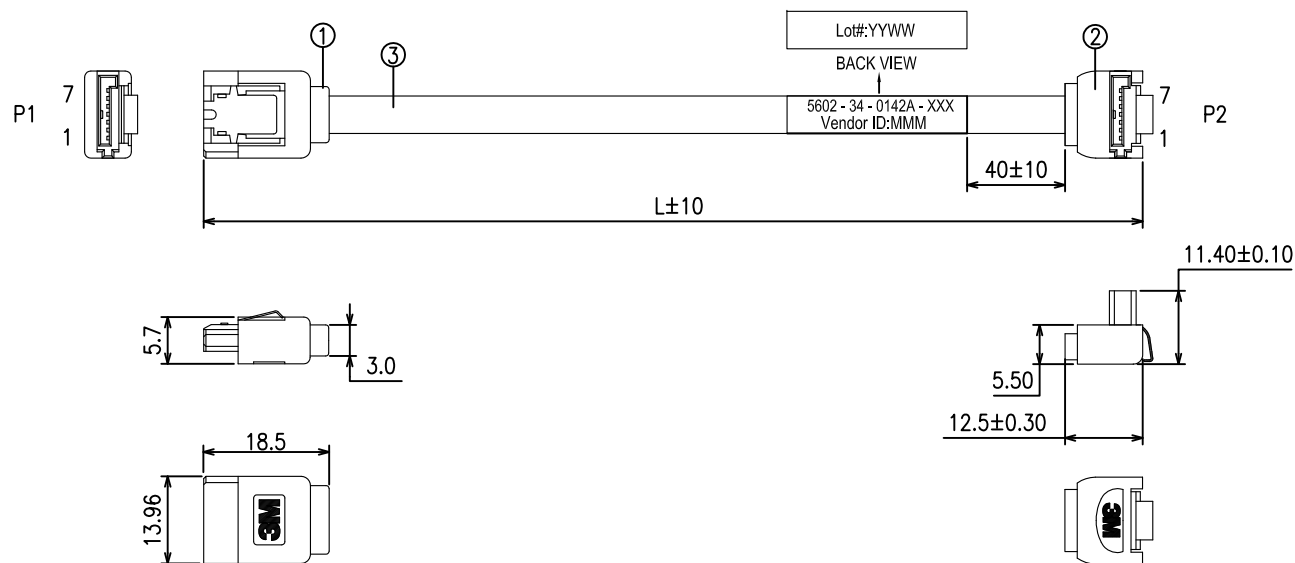
3	CABLE : RIBBON TWIN AX , SL8803/08, UL AWM 21008,150V,80C	1	PC
	SIGNAL -SILVER PLATED COPPER WITH 30 AWG.		
2	SATA CONN : 7P FEMALE 90° BLACK PBT30% 15"AU WITH LATCH	1	PC
1	SATA CONN : 7P FEMALE 90° BLACK PBT30% 15"AU WITH LATCH	1	PC
ITEM	SPECIFICATION	Q'TY	UNIT

WWW.3Mconnectors.com

UNIT: MM	DFTG RAD VITTAPALLI	DATE 05/12/11			DIVISION ESD	STATUS RELEASE
GEN. TOLERANCES	CHKD RAD VITTAPALLI	DATE 05/12/11			MODEL	
LINEAR .0 = ± 0.25 .00 = ± 0.15 .000 = ± 0.05	APPVL ALAN ANG	DATE 05/12/11	TITLE SATA 7 PIN RIBBON TWINAX CABLE ASSEMBLY RIGHT ANGLE TO RIGHT ANGLE WITH LATCH			
ANGLE ±1°	THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.					
PROJECTION 	INTERPRET PER ASME Y14.5M-1994		SIZE A3	DRAWING NO. 78-5100-4897-8		REV A
	CRITICAL DIMENSION: ▲		SCALE : NTS		DET LIST ☐ YES ☐ NO	SHT 4 of 6

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
REFER TO SHT 1 OF 6		



NOTES :

- Regulatory Information.
RoHs compliant, See the regulatory information appendix(RIA) in the "RoHs compliance" section of WWW.3Mconnectors.com compliance information (RIA E1 & C1 apply)
- For custom cable length, contact 3M sales rep.
- Cable drawing : 78-5100-2414-0
- Product Specification: PS-0117.
- This unique cable construction has thin Aluminum inner layer exposed at each edge. users should assess the risk in their specific application. Insulating tape may be applied at the cable assembly level, as needed to cover this exposed edge in risk areas.
- PVC overmoulding and PE Inner moulding at both ends.
- Product meets SATA 3.0 signal integrity specifications.

PART NUMBER SELECTION

5602-34-0142A-XXX
Length in mm,000 refers to 1000mm.

3M PART NO.	L(MM)
5602-34-0142A-100	100
5602-34-0142A-200	200
5602-34-0142A-300	300
5602-34-0142A-400	400
5602-34-0142A-500	500
5602-34-0142A-600	600
5602-34-0142A-700	700
5602-34-0142A-800	800
5602-34-0142A-900	900
5602-33-0142A-000	1000

PIN OUT

P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7

3	CABLE : RIBBON TWIN AX , SL8803/08, UL AWM 21008,150V,80C	1	PC
	SIGNAL -SILVER PLATED COPPER CONDUCTOR 30 AWG.		
2	SATA CONN : 7P FEMALE 90° BLACK PBT 30%GF 15"AU WITH LATCH	1	PC
1	SATA CONN : 7P FEMALE 180° BLACK PBT 30%GF 15"AU WITH LATCH	1	PC
ITEM	SPECIFICATION	Q'TY	UNIT

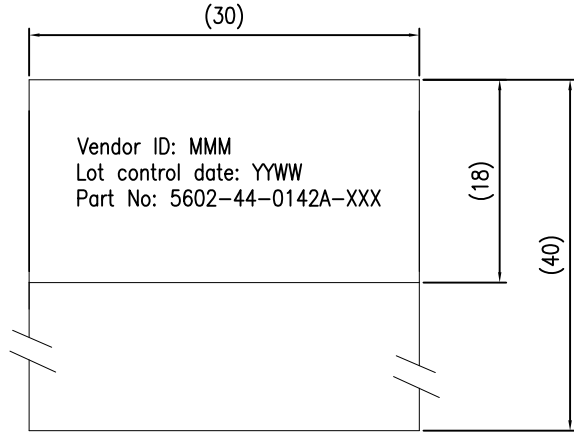
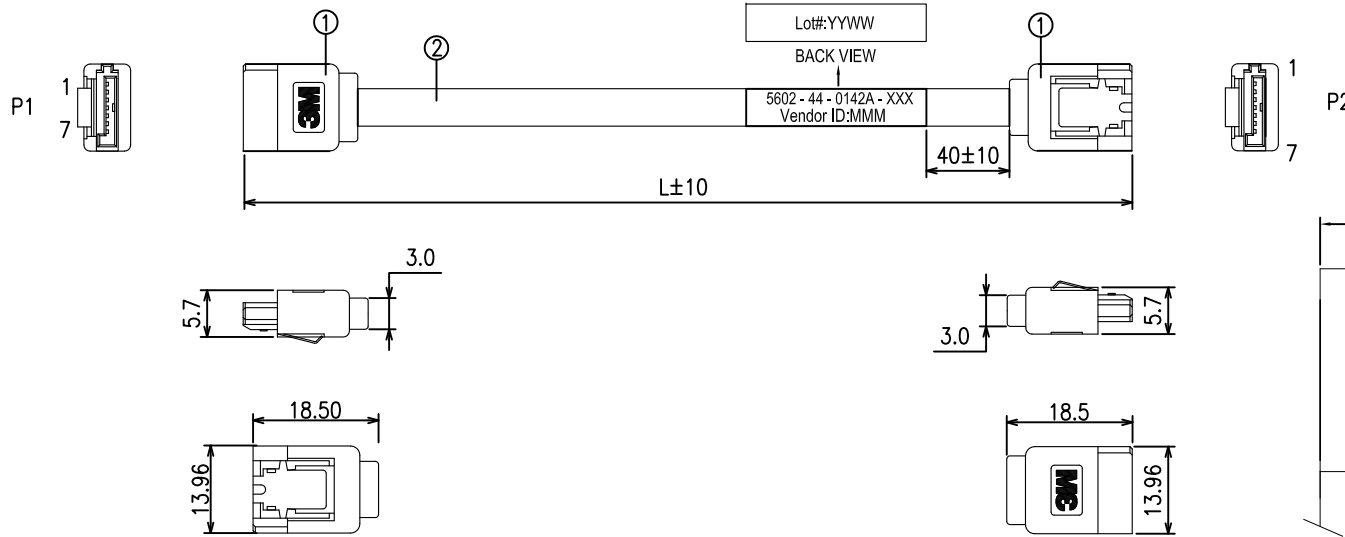
WWW.3Mconnectors.com

UNIT: MM	DFTG RAD VITTAPALLI	DATE 05/12/11			DIVISION ESD	STATUS	
GEN. TOLERANCES	CHKD RAD VITTAPALLI	DATE 05/12/11			MODEL	RELEASE	
LINEAR .0 = ± 0.25 .00 = ± 0.15 .000 = ± 0.05	APPLV ALAN ANG	DATE 05/12/11	TITLE SATA 7 PIN RIBBON TWINAX CABLE ASSEMBLY STRAIGHT TO RIGHT ANGLE WITH LATCH				
ANGLE ±1°	THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.		SIZE A3	DRAWING NO. 78-5100-4897-8		REV A	
PROJECTION 	INTERPRET PER ASME Y14.5M-1994		SCALE : NTS		DET LIST	☐ YES ☐ NO	SHT 5 of 6
	CRITICAL DIMENSION: ▲						

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

REVISION RECORD

REV.	ECR/ECN/ECO NUMBER	DATE
REFER TO SHT 1 OF 6		



NOTES :

- Regulatory Information.
RoHs compliant, See the regulatory information appendix(RIA) in the "RoHs compliance" section of WWW.3Mconnectors.com compliance information (RIA E1 & C1 apply)
- For custom cable length, contact 3M sales rep.
- Cable drawing : 78-5100-2414-0
- Product Specification: PS-0117.
- This unique cable construction has thin Aluminum inner layer exposed at each edge. users should assess the risk in their specific application. Insulating tape may be applied at the cable assembly level, as needed to cover this exposed edge in risk areas.
- PVC overmoulding and PE Inner moulding at both ends.
- Product meets SATA 3.0 signal integrity specifications.

PART NUMBER SELECTION

5602-44-0142A-XXX
Length in mm,000 refers to 1000mm.

3M PART NO.	L(MM)
5602-44-0142A-100	100
5602-44-0142A-200	200
5602-44-0142A-300	300
5602-44-0142A-400	400
5602-44-0142A-500	500
5602-44-0142A-600	600
5602-44-0142A-700	700
5602-44-0142A-800	800
5602-44-0142A-900	900
5602-44-0142A-000	1000

PIN OUT

P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7

2	CABLE : RIBBON TWIN AX , SL8803/08, UL AWM 21008,150V,80C	1	PC
	SIGNAL -SILVER PLATED COPPER CONDUCTOR WITH 30 AWG.		
1	SATA CONN : 7P FEMALE 180° BLACK PBT 30GF , 15°AU WITH LATCH	2	PCS
ITEM	SPECIFICATION	Q'TY	UNIT

WWW.3Mconnectors.com

UNIT: MM	DFTG RAD VITTAPALLI	DATE 05/12/11	3M APAC INNOVATION CENTRE		DIVISION ESD	STATUS RELEASE
GEN. TOLERANCES	CHKD RAD VITTAPALLI	DATE 05/12/11			MODEL	
LINEAR .0 = ± 0.25 .00 = ± 0.15 .000 = ± 0.05	APPVL ALAN ANG	DATE 05/12/11	TITLE SATA 7 PIN RIBBON TWINAX CABLE ASSEMBLY STRAIGHT TO STRAIGHT WITH LATCH			
ANGLE ±1°	THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.					
PROJECTION 	INTERPRET PER ASME Y14.5M-1994		SIZE A3	DRAWING NO. 78-5100-4897-8		REV A
	CRITICAL DIMENSION: ▲		SCALE : NTS		DET LIST ☐ YES ☐ NO	SHT 6 of 6