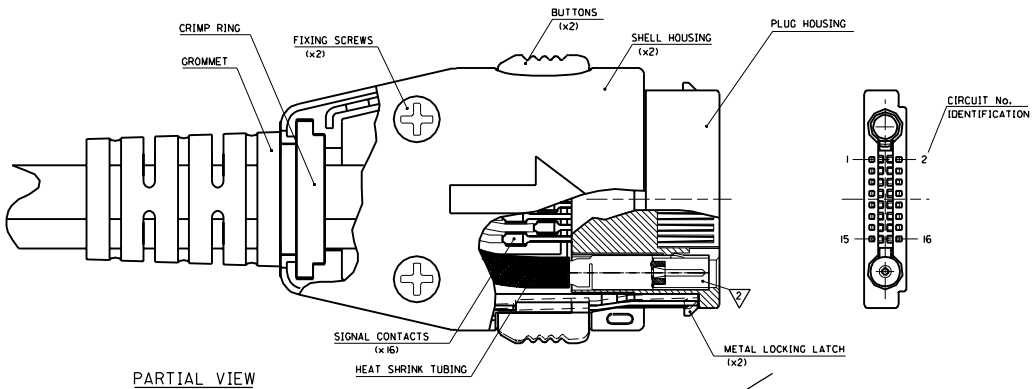
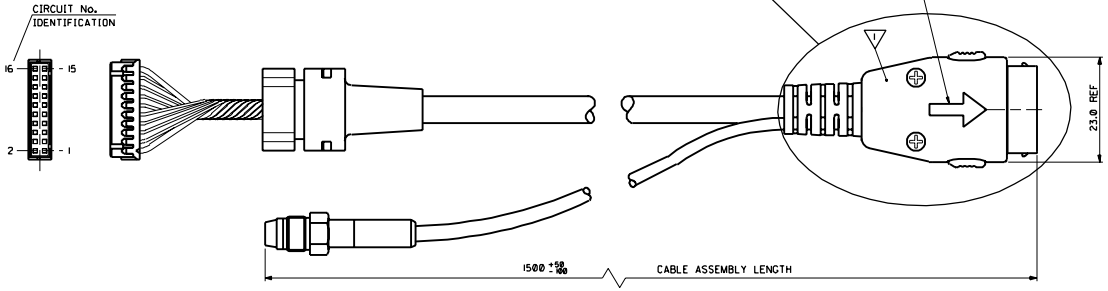
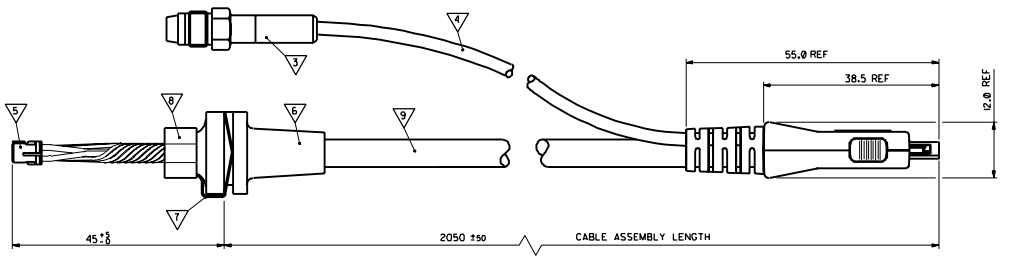


PARTIAL VIEW
SCALE 5:1

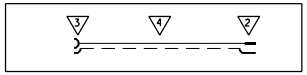




WIRING DIAGRAM : 16 CORE CABLE

5 JST 16 CIRCUIT PHD CONNECTOR	8 16 CORE CABLE	1 MOLEX I/O CONNECTOR
CIRCUIT No.	CONDUCTOR No.	CIRCUIT No.
2	1	1
1	2	2
6	5	3
4	16	4
12	6	5
10	15	6
8	7	7
14	14	8
3	8	9
5	13	10
7	9	11
9	12	12
13	10	13
11	11	14
15	3	15
16	4	16
	BRAID	
	DRAIN WIRE	

WIRING DIAGRAM : R.F. CABLE



9 CABLE SPECIFICATION : 16 CORE CABLE

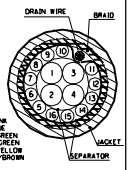
1. CABLE TYPE:- FLAT ☐ RIBBON ☐ ROUND ☒ OTHER ☐
SPIRAL CABLE YES ☐ NO ☒
NO. OF CONDUCTORS 16

2. CABLE REQUIREMENTS : N/A

3. CONDUCTOR SPECIFICATIONS :-

	CONDUCTOR NO. 1 - 4	CONDUCTOR NO. 5 - 16
CONDUCTOR :	CENTRE	OUTSIDE
- MATERIAL	TINNED Cu	TINNED Cu
- A.W.G.	22	30
- STRANDING QTY/GUAGE	19/34	7/38
- TENSILE STRENGTH	N/A	N/A
INSULATION :		
- MATERIAL	PVC	SEMI-RIGID PVC
- MIN. WALL THICKNESS	0.18 REF	0.18 REF
-COLOUR	SEE CABLE DIAGRAM/COLOUR CODE	
- OUTSIDE DIAMETER	1.25 REF	0.70 REF
DIRECTION OF LAY		S
LENGTH OF LAY	32 REF	45 REF
U.L. RATING	UL - 1692	

COLOURS:
1. WHITE
2. BROWN
3. GREEN
4. YELLOW
5. GREY
6. PINK
7. BLUE
8. RED
9. BLACK
10. VIOLET
11. GREY/PINK
12. RED/BLUE
13. WHITE/GREEN
14. BROWN/GREEN
15. WHITE/YELLOW
16. YELLOW/BROWN



SCALE 8:1

4. FILLER : ENOUGH TO MAKE THE ASSEMBLY ROUND

5. SEPARATOR : N/A

6. SHIELD : FOIL TYPE N/A; FOIL FACING N/A

7. DRAIN WIRE : GAUGE 26 AWG; STRANDING 7/34; REQUIREMENT DRAIN TO BE ON THE OUTSIDE OF THE SEPARATOR

8. SPIRAL/BRAID : GAUGE 24 x 8 x 0.1; COPPER TYPE TINNED Cu; COVERAGE 90 %

9. CABLE JACKET : TYPE PVC (GENERAL PURPOSE EXTRUSION GRADE); FINAL DIAMETER 6.8 REF; MIN. THICKNESS 0.4 REF; COLOUR BLACK; FINISH MATT; U.L. RATING UL - 20276; HARDNESS 61.75 SHORE A; STRIPABILITY TO BE EASILY STRIPPED BETWEEN THUMB AND FOREFINGER; MARKINGS "V24851-Z1303-A131-I" "YEAR AND MONTH" OF MANUFACTURE ACCORDING TO IEC 62 INDEX 5.4, MAY PRINTED IN WHITE EVERY 500.

10. PACKAGING : PACKAGING SEE PACKAGING SPECIFICATION ESTABLISHED BY LOCAL PURCHASING AND MANUFACTURING DEPARTMENTS .

BILL OF MATERIALS

NO.	QUANTITY	SUPPLIER	DESCRIPTION	PART No.	SEE NOTE
1	1	MOLEX	16 CIRCUIT I/O MOBILE PHONE PLUG CONNECTOR	90813-0001	1, 2, 3
2	1	MOLEX	COAXIAL RF CONNECTOR	90853-0001	
3	1	ROSENBERGER	COAXIAL RF CONNECTOR	26K101-102	5, 6
4	1	NO PREFERRED SUPPLIERS	COAXIAL CABLE 50 OHM	RG 174 A/U	5, 6
5	1 12 4	JST	16 CIRCUIT CONNECTOR CRIMP TERMINAL, 30 AWG CRIMP TERMINAL, 22 AWG	PHDR-16VS SPHD-003T-P0.5 SPHD-001T-P0.5	3, 5, 6
6	1	HELLERMANN	CABLE SUPPORT SLEEVE PVC BLACK	634-01210 (H121)	5, 6
7	1	GRIES	CONTACT	C24158-A37 -C4-1	5, 6
8	1	SAHLBERG	CLAMP	9-11	5, 6
9	1	MOLEX	16 CORE CABLE SEE CABLE SPECIFICATION		5

NOTES:-

1. MATES WITH SERIES 90811 HANDSET CONNECTOR.
2. SEE PRODUCT SPECIFICATION No. PS-99020-0033
3. POWER CONTACTS TO BE ON CIRCUITS 1,2,15,16
4. CABLE CONDUCTORS & RF COVERED WITH HEAT SHRINK INSULATION TUBING .
5. ONLY AVAILABLE FROM MOLEX AS PART OF A CABLE ASSEMBLY .
6. SUPPLIER OR CUSTOMER APPROVED EQUIVALENT.
7. SEE GROMMET SPECIFICATION ES-99038-0001 .
8. PACKAGING : SEE PACKING SPECIFICATION ES-99039-0002(OPTION 1.3), AND LABELLED AS SHOWN. YEAR AND MONTH, "XX", TO BE PRINTED ACCORDING TO IEC 62 INDEX 5.1 .
9. SEE TERMINATION SPECIFICATION ES-99033-0003 .

V24851-Z1303-A131-I
W0481
XX MXI
MOLEX 90813-1013

FOR PREVIOUS DRAWING ISSUES SEE MRI.

LTR	REVISIONS	ECN E 68272	95-1127 MK	ARMOR & RF CABLE MOD
CD				

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES (ANGULAR) ± ½°
INCH (METRIC)
3 PLACE ± .X (.X)
2 PLACE ± .XX (.XX)
1 PLACE ± .X (.X)
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
DESIGN DIMENSION (PRIMARY) ☒ (MM) ☐ IN.
EQUIVALENT DIMENSION (SECONDARY) ☐ (MM) ☐ IN.
DRWD BY MC
CHK'D BY
APP'D BY
SCALE 2:1

REVISE ONLY ON CAD SYSTEM | SH. REV.

CADCAM FILENAME 5988-0-0 DCN

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

TITLE
SYSTEM CONNECTOR
PLUG CABLE ASSEMBLY

MOLEX EUROPE

SHEET NO. 1OF 1 DATE 95/04/25

PART NO. 90813-1013

DWG NO. SDA-90813-1013

SIZE D

5453-1001