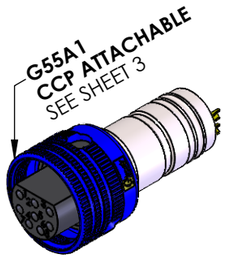
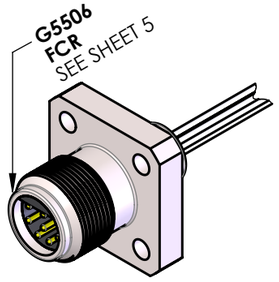
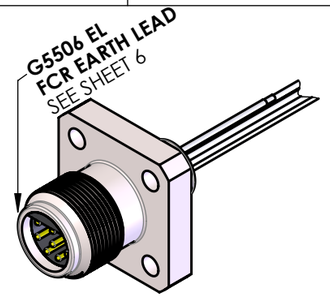
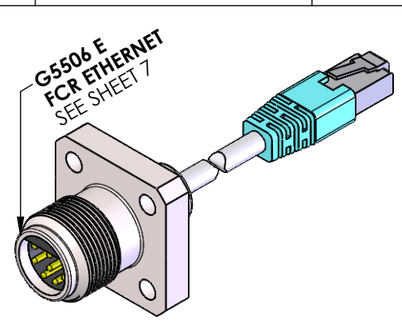
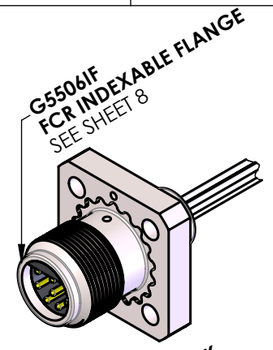
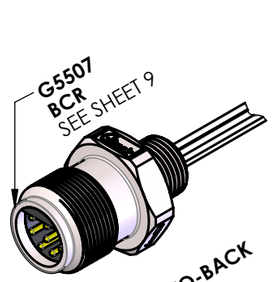


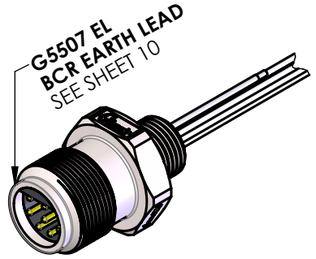


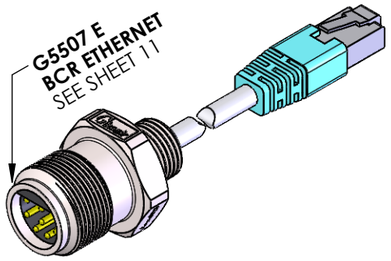


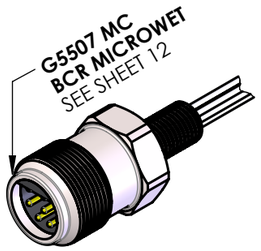


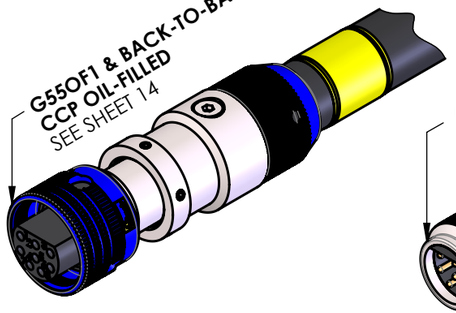


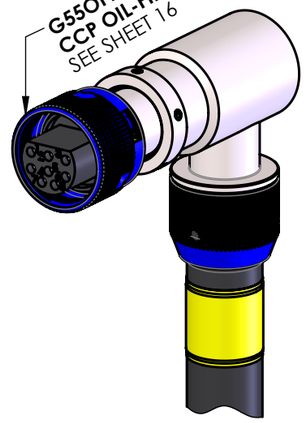


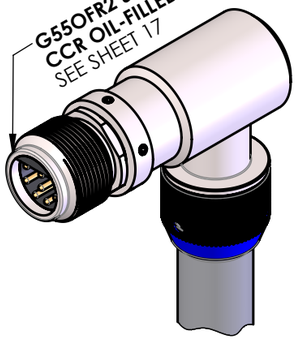


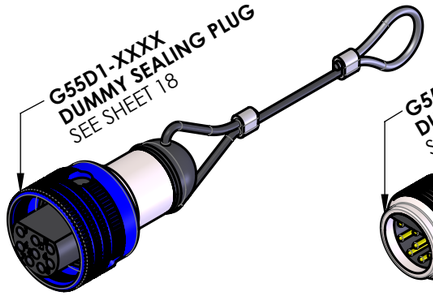


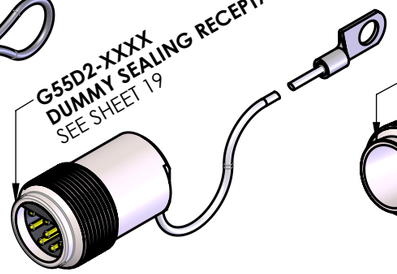


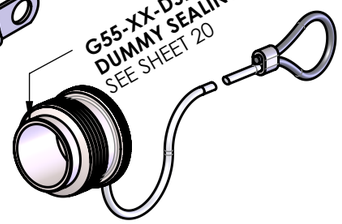


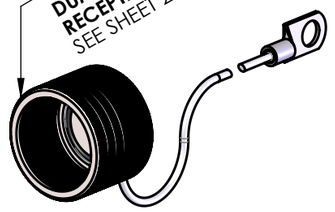


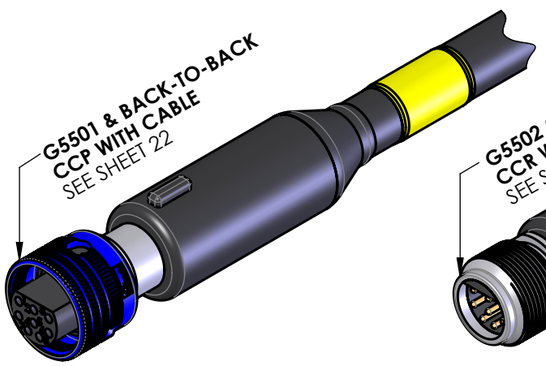


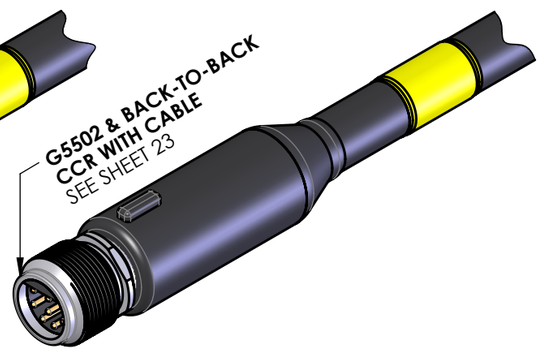


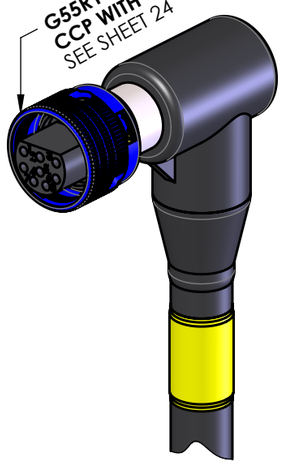


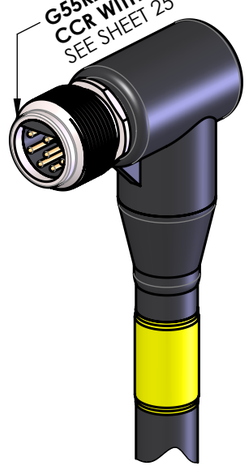


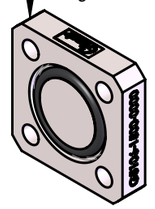


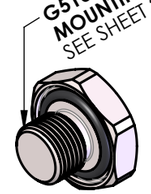












REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES ⌖ Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES ⌭ 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 1
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
2:3	M.Eyre	20-06-2025	GDS337-G55		D.1

TABLE 1 - MATERIALS / FINISH		
COMPONENT	MATERIAL	FINISH
CONNECTOR SHELL(S)	316L STAINLESS STEEL	PASSIVATION.
INSULATOR	PEEK	N/A
INSERT	NEOPRENE	N/A
CONTACTS	COPPER ALLOY	GOLD PER OVER NICKEL.
0 RINGS	NITRILE	N/A
OVERMOULD	POLYURETHANE OR NEOPRENE	N/A
COUPLING NUT	316L STAINLESS STEEL	PROTECTIVE COATING - BLUE
BULKHEAD RECEPTACLE TAILS	P.T.F.E. INSULATED 16 AWG WIRE.	N/A
CABLE	POLYURETHANE OR NEOPRENE JACKETED	N/A

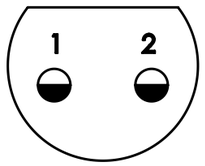
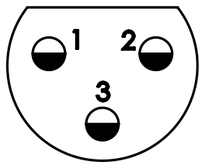
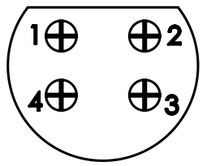
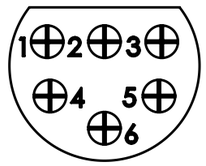
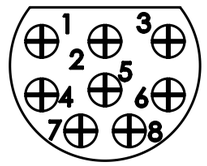
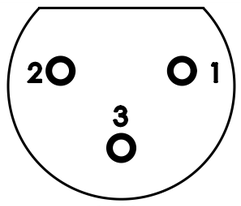
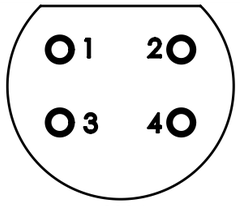
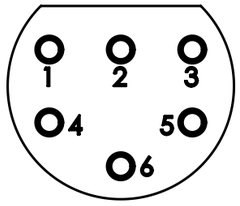
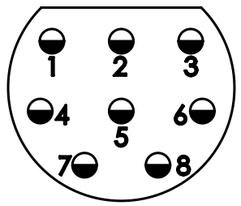
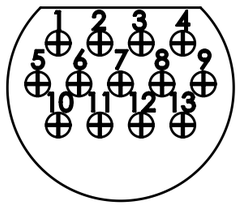
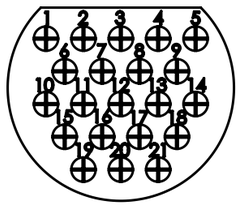
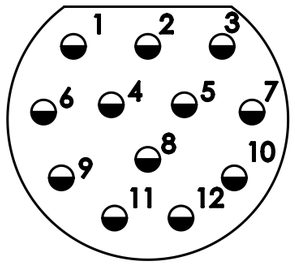
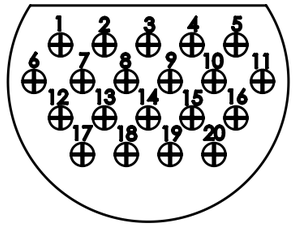
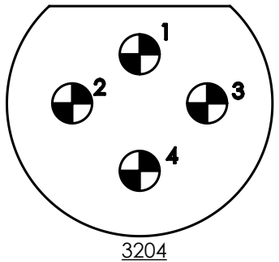
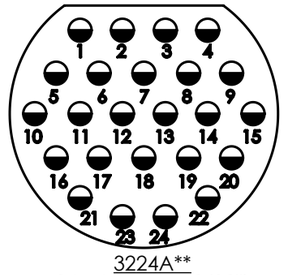
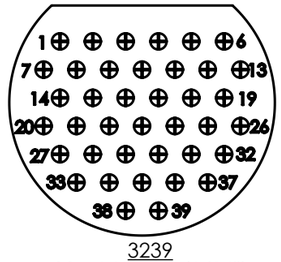
TABLE 2 - PERFORMANCE DATA	
MATING CYCLES	500
PRESSURE	689 BAR (10,000 PSI) MATED AND UN-MATED.
OPERATING TEMPERATURE	-20°C TO +90°C
BULKHEAD MOUNTING TORQUE	SIZE 15 - 14.12NM (125LB.INS.) SIZE 20 - 18.64NM (165LB.INS.) SIZE 24 - 25.42NM (225LB.INS.) SIZE 32 - TBA
VOLTAGE RATING	600 VDC / 440 VAC
CURRENT (MAX.)	5 TO 18 AMPS DEPENDANT ON CONTACT AND CABLE CONDUCTOR SIZES. 50 AMPS FOR SIZE 3204 #6 AWG CONTACT

TABLE 3 - LENGTH TOLERANCE			
IMPERIAL		METRIC	
≤ 1ft	+ 1" - 0"	≤ 0.3m	+ 25mm - 0mm
1ft ≤ 5ft	+ 2" - 0"	0.3m ≤ 1.5m	+ 50mm - 0mm
5ft ≤ 10ft	+ 4" - 0"	1.5m ≤ 3m	+ 100mm - 0mm
10ft ≤ 25ft	+ 6" - 0"	3m ≤ 7.5m	+ 150mm - 0mm
≥ 25ft	+5% - 0%	≥ 7.5m	+5% - 0%

- SUPER G55 RANGE
  INTERMATEABLE WITH OTHER 55 SERIES CONNECTORS.
- UNDERGONE FULL QUALIFICATION PROGRAM
  DETAILS AVAILABLE UPON REQUEST.
- STANDARD SHELL MATERIAL STAINLESS STEEL
  ALTERNATIVES INCLUDE, NOT LIMITED TO, PEEK, BRASS, TITANIUM.
- STANDARD INSERT MATERIAL NEOPRENE
  ALTERNATIVES INCLUDE HYPALON AND NITRILE.
- STANDARD OVERMOULDS, POLYURETHANE OR NEOPRENE, CABLE JACKET DEPENDENT
  ALSO AWAILABLE IN GLENAIR DURALECTRIC FOR CHALLENGING ENVIRONMENTS.
- GLENAIR OFFER A FULL RANGE OF G55 AND G66 CONNECTORS
  CONTACT THE FACTORY FOR CUSTOM SOLUTIONS
  CAD MODELS AVAILABLE UPON REQUEST.
- REFERENCE G55/G66 INSTALLATION INSTRUCTIONS GUIDE FOR HANDLING AND INSTALLATION INSTRUCTIONS. CONTACT GLENAIR FOR LATEST COPY.
- ** SIZE 3224A IS NOT INTERMATABLE WITH ANY OTHER BRAND OF 3224 CONNECTORS

MATERIAL	SEE TABLE
FINISH	SEE TABLE

TABLE 4 - CONTACT CONFIGURATION

SHELL SIZE	CONTACT CONFIGURATION (FACE VIEW OF PLUG CONNECTOR) NOT TO SCALE
15	 1502 — 2 x 12 AWG (3/32")
	 1503 — 3 x 12 AWG (3/32")
	 1504 — 4 x 16 AWG (1/16")
	 1506 — 6 x 16 AWG (1/16")
	 1508 — 8 x 16 AWG (1/16")
20	 2003 — 3 x 10 AWG (1/8")
	 2004 — 4 x 10 AWG (1/8")
	 2006 — 6 x 10 AWG (1/8")
	 2008 — 8 x 12 AWG (3/32")
	 2013 — 13 x 16 AWG (1/16")
	 2021 — 21 x 16 AWG (1/16")
24	 2412 — 12 x 12 AWG (3/32")
	 2420 — 20 x 16 AWG (1/16")
32	 3204 — 4 x 6 AWG (3/16")
	 3224A** — 24 x 12 AWG (3/32")
	 3239 — 39 x 16 AWG (1/16")

REV	DCO	DATE
E	15874	26/06/2025
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C	15022	08/05/2024
B	13995	27/07/22

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OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE SUB-SEA CONNECTORS

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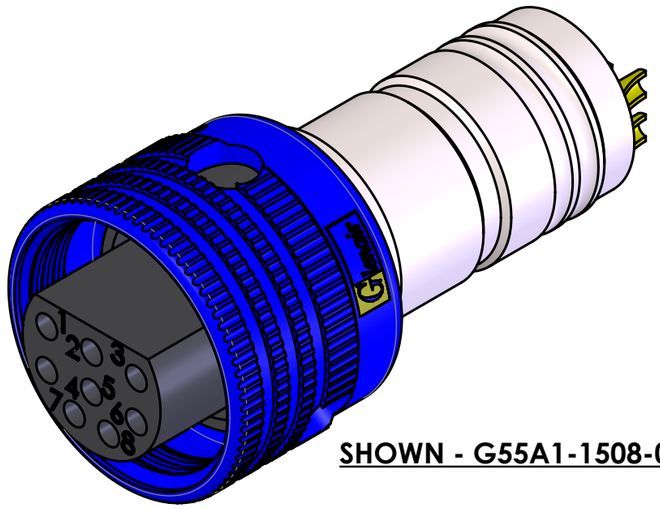
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model | A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 2
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
2:1	M.Eyre	20-06-2025	GDS337-G55		D.1

CABLE CONNECTOR PLUG (CCP)



SHOWN - G55A1-1508-0000

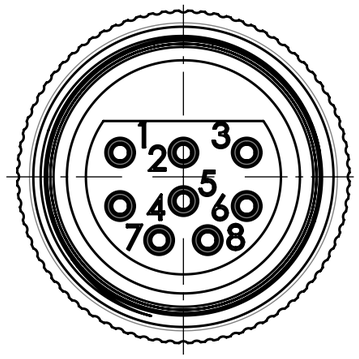
STANDARD CCP MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

G55A1-XXXX-0000-XX-MCXXX

55 CONNECTOR SERIES *(CCP, LONG VERSION)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(0000 = NO CABLE)*
CAN NOT *BE SUPPLIED WITH CABLE*
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**



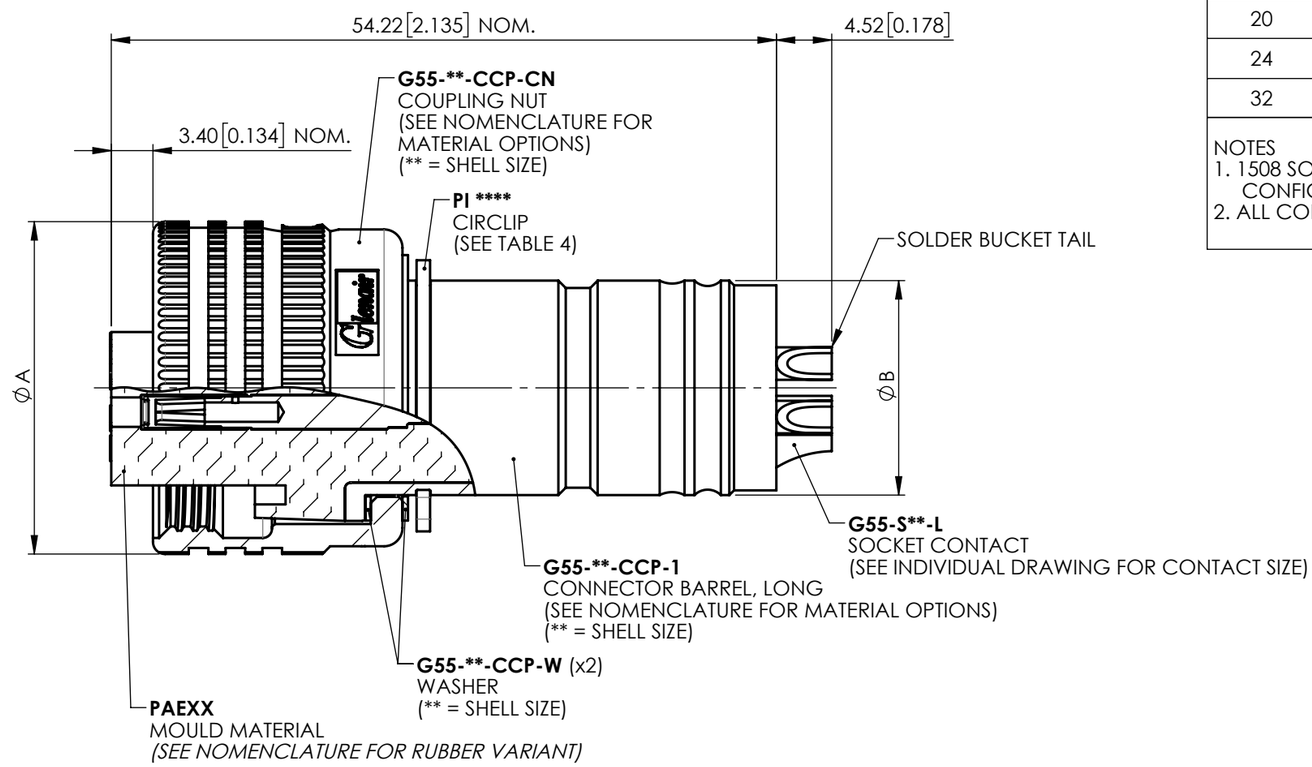


TABLE 5 - CCP DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.05 (0.002")	DIM C ±0.05 (0.002")	CIRCLIP
15	27.18 (1.070")	17.48 (0.688")	17.30 (0.681")	PI2340
20	36.85 (1.450")	27.76 (1.093")	27.26 (1.073")	PI2341
24	43.20 (1.700")	33.32 (1.312")	32.72 (1.288")	PI2342
32	56.77 (2.350")	46.00 (1.811")	45.30 (1.783")	PI2561

NOTES
1. 1508 SOCKET CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.

MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
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SURFACE CONDITIONS SEE GDS251

TOLERANCES
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.X = ± 0.25
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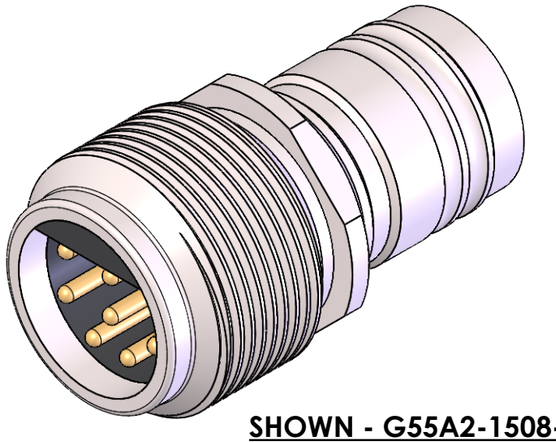
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 3
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
2:1	M.Eyre	20-06-2025	GDS337-G55		D.1

CABLE CONNECTOR RECEPTACLE (CCR)



SHOWN - G55A2-1508-0000

STANDARD CCP MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

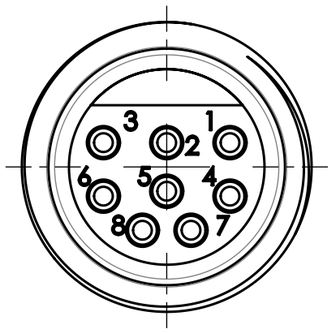
G55A2-XXXX-0000-XX-MCXXX

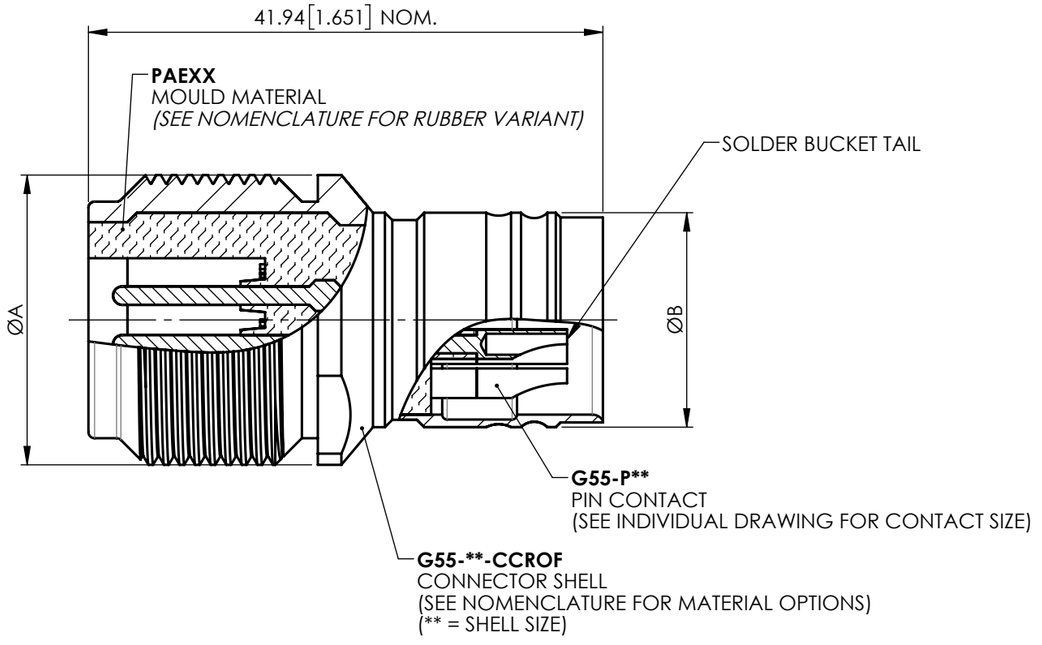
55 CONNECTOR SERIES *(CCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(0000 = NO CABLE)*
CAN NOT *BE SUPPLIED WITH CABLE*
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

TABLE 6 - CCR DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.05 (0.0062')
15	23.62 (0.930")	17.48 (0.688")
20	31.76 (1.250")	27.76 (1.093")
24	38.10 (1.500")	33.32 (1.312")
32	50.80 (2.000")	46.00 (1.811")

NOTES
1. 1508 SOCKET CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.





REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø 0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

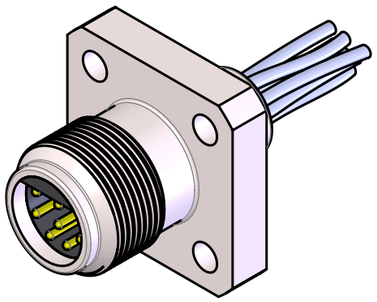
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 4
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 2:1	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

A3

FLANGE CONNECTOR RECEPTACLE (FCR)



SCALE 1:1
SHOWN - G5506-1508-0004

STANDARD FCR MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

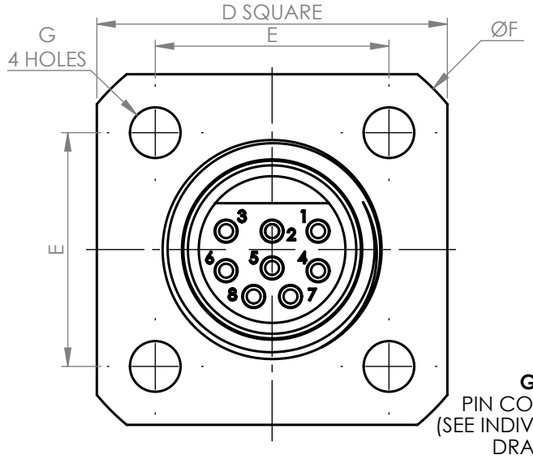
G5506-XXXX-XXXX-XX-CS-MCXXX

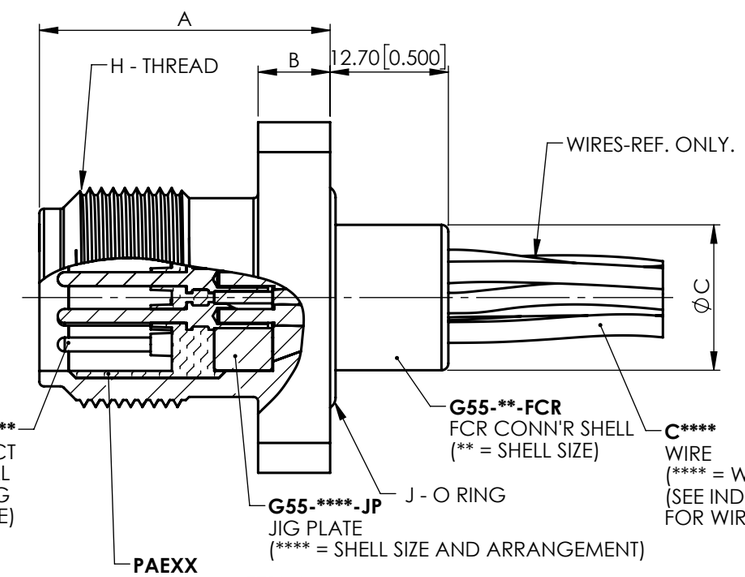
55 CONNECTOR SERIES *(FCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(SEE TABLE 3, SHEET 2)*
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
CODE SHEET FOR NON STANDARD CONNECTOR *(OMIT FOR STANDARD CONNECTOR)*
MOD CODE FOR NON STANDARD CONNECTOR *OMIT FOR STANDARD CONNECTOR (NEOPRENE)*
NITRILE = **MC350**
HYPALON = **MC395**

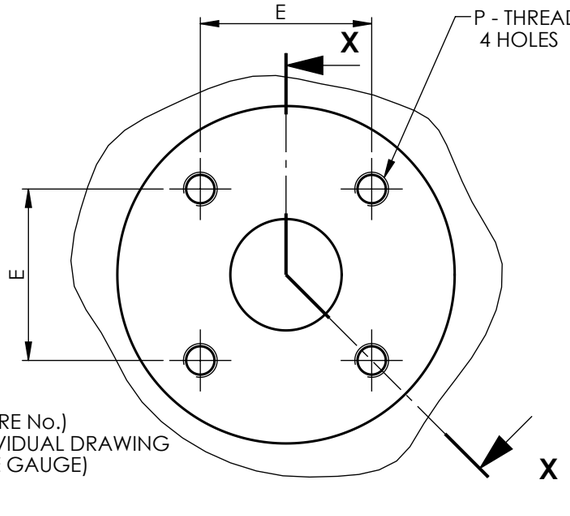
NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. ALL FCR CANNOT BE SUPPLIED UN-WRIRED. ALTERNATIVE WIRES CAN BE SUPPLIED, COAX, SCREENED PAIR, ETC.
4. CONSULT FACTORY FOR CUSTOM WIRING.

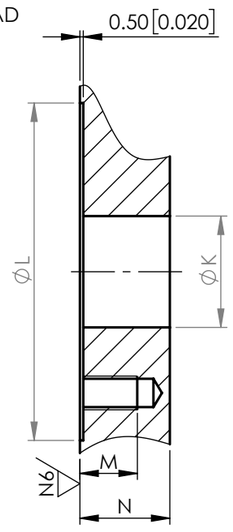
TABLE 7 - FCR DIMENSIONS & PANEL MOUNT DETAILS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.05 (0.002")	DIM D ±0.13 (0.005")	DIM E ±0.05 (0.002")	DIM F ±0.13 (0.005")	DIM G +0.10/-0 (+0.004"/-0)	H - THREAD	J - O RING	DIM K ±0.13 (0.005")	DIM L ±0.13 (0.005")	M THREAD DEPTH TYPICAL	DIM N MIN.	P - THREAD
15	31.75 (1.2500")	7.98 (0.314")	15.80 (0.622")	38.10 (1.500")	25.40 (1.000")	49.50 (1.949")	5.50 (0.217")	15/16"-20 UNEF-2A	BS1806-116	16.50 (0.650")	50.30 (1.980")	8.00 (0.315")	13.3 (0.525")	M5 x 0.8-6H
20	38.10 (1.500")	9.50 (0.374")	18.73 (0.737")	44.45 (1.7500")	31.75 (1.250")	58.40 (2.299")	7.00 (0.276")	1 1/4"-9 STUB ACME	BS1806-118	19.56 (0.770")	59.18 (2.33)	9.52 (0.375")	15.88 (0.625")	M6 x 1.0-6H
24	38.10 (1.500")	9.50 (0.374")	25.08 (0.987")	50.80 (2.000")	38.10 (1.500")	66.70 (2.626")	7.00 (0.276")	1 1/2"-9 STUB ACME	BS1806-122	25.91 (1.020")	67.44 (2.655")	9.52 (0.375")	15.88 (0.625")	M6 x 1.0-6H
32	37.95 (1.494")	9.35 (0.368")	37.82 (1.489")	66.80 (2.630")	50.80 (2.000")	87.65 (3.451")	7.00 (0.276")	2" -9 STUB ACME	BS1806-130	38.61 (1.520")	89.66 (3.53")	12.70 (0.500")	20.96 (0.825")	M8 x 1.25-6H









SECTION X-X
SCALE 1.1 : 1

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

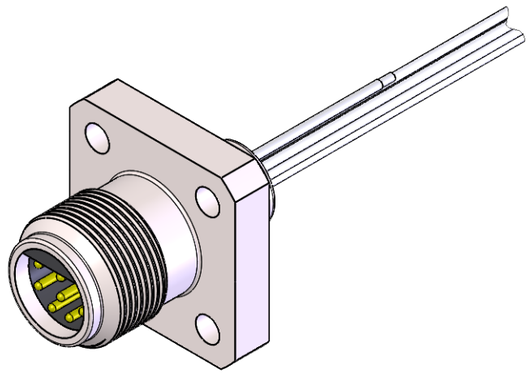
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 5
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
3:2	M.Eyre	20-06-2025	GDS337-G55		D.1

FLANGE CONNECTOR RECEPTACLE - EARTHING LEAD (FCR-EL)



SCALE 1:1
SHOWN - G5506-1508-0004-EL

STANDARD EARTH LEAD MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

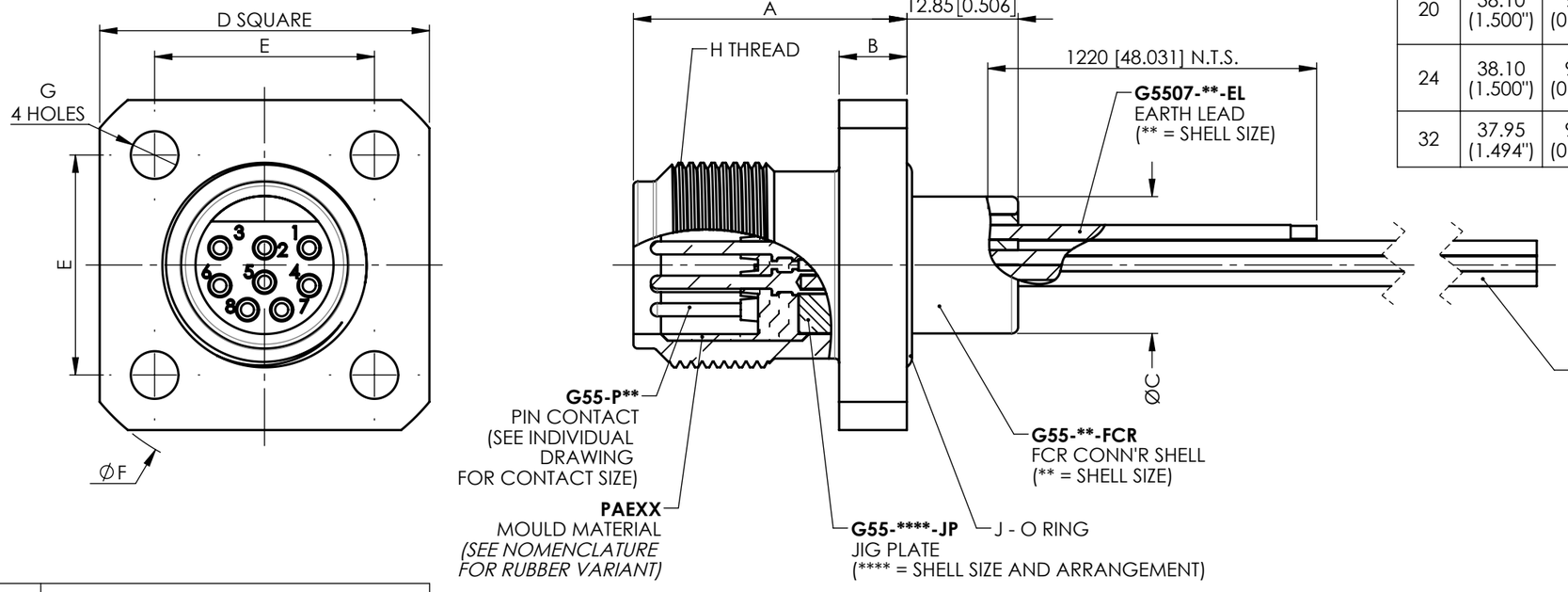
G5506-XXXX-XXXX-EL-XX-CS-MCXXX

55 CONNECTOR SERIES *(FCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(SEE TABLE 3, SHEET 2)*
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
EARTHING LEAD
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

TABLE 8 - FCR EARTH LEAD DIMENSIONS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.05 (0.002")	DIM D ±0.13 (0.05")	DIM E ±0.05 (0.002")	DIM F ±0.13 (0.005")	DIM G +0.10/-0 (+0.004"/-0)	H - THREAD	J - O RING
15	31.75 (1.250")	7.98 (0.314")	15.80 (0.622")	38.10 (1.500")	25.40 (1.000")	49.50 (1.949")	5.50 (0.217")	15/16"-20 UNEF-2A	BS1806-116
20	38.10 (1.500")	9.50 (0.374")	18.73 (0.737")	44.45 (1.750")	31.75 (1.250")	58.40 (2.299")	7.00 (0.276")	1 1/4"-9 STUB ACME	BS1806-118
24	38.10 (1.500")	9.50 (0.374")	25.08 (0.987")	50.80 (2.000")	38.10 (1.500")	66.70 (2.626")	7.00 (0.276")	1 1/2"-9 STUB ACME	BS1806-122
32	37.95 (1.494")	9.35 (0.368")	37.82 (1.489")	66.80 (2.630")	50.80 (2.000")	87.65 (3.451")	7.00 (0.276")	2"-9 STUB ACME	BS1806-130

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. SEE SHEET 5 FOR PANEL MOUNT DETAILS
4. CONSULT FACTORY FOR CUSTOM WIRING.



REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

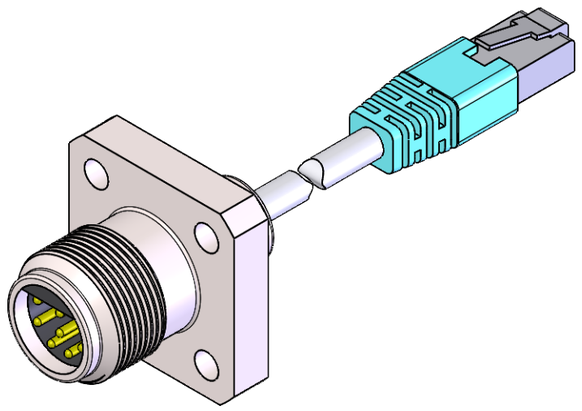
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 6
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
3:2	M.Eyre	20-06-2025	GDS337-G55		D.1

FLANGE CONNECTOR RECEPTACLE - ETHERNET (FCR-E)



SCALE 1:1
SHOWN - G5506-1508-E004

STANDARD ETHERNET MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

G5506-XXXX-EXXX-XX-CS-MCXXX

55 CONNECTOR SERIES *(FCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(SEE TABLE 3, SHEET 2)*
e.g. (E004 = 4ft)
e.g. (E010 = 10ft)
MUST BE SUPPLIED WITH CABLE

MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**

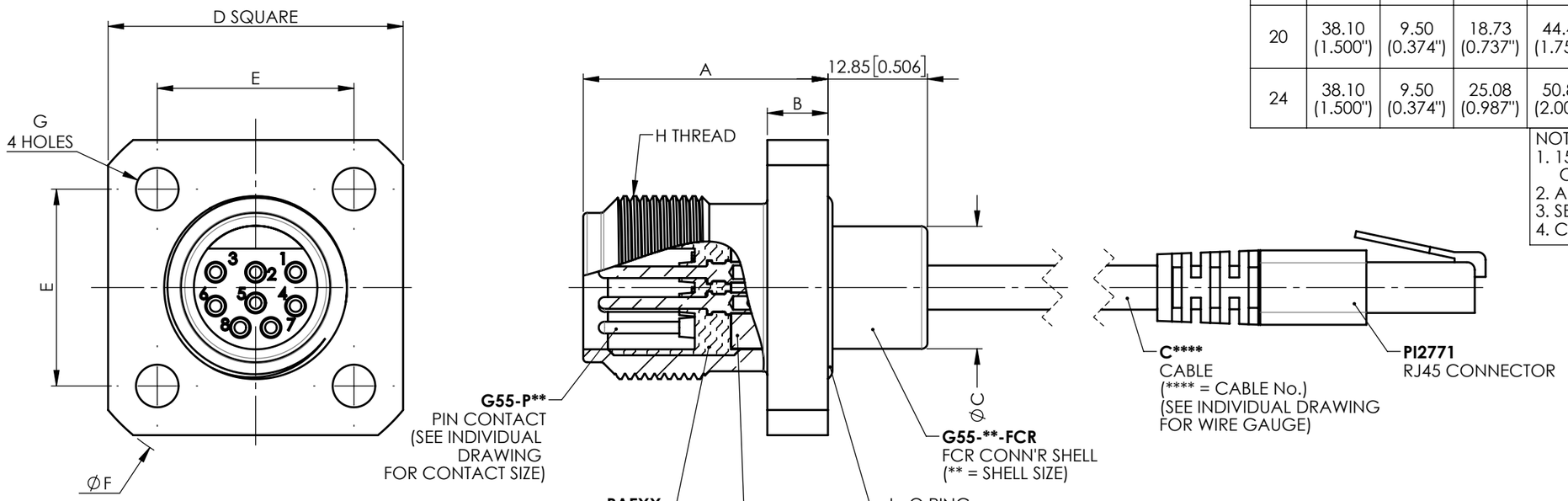
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)

MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

TABLE 9 - FCR EARTH LEAD DIMENSIONS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.05 (0.002")	DIM D ±0.13 (0.05")	DIM E ±0.05 (0.002")	DIM F ±0.13 (0.005")	DIM G +0.10/-0 (+0.004"/-0)	H - THREAD	J - O RING
15	31.75 (1.250")	7.98 (0.314")	15.80 (0.622")	38.10 (1.500")	25.40 (1.000")	49.50 (1.949")	5.50 (0.217")	15/16"-20 UNEF-2A	BS1806-116
20	38.10 (1.500")	9.50 (0.374")	18.73 (0.737")	44.45 (1.750")	31.75 (1.250")	58.40 (2.299")	7.00 (0.276")	1 1/4"-9 STUB ACME	BS1806-118
24	38.10 (1.500")	9.50 (0.374")	25.08 (0.987")	50.80 (2.000")	38.10 (1.500")	66.70 (2.626")	7.00 (0.276")	1 1/2"-9 STUB ACME	BS1806-122

NOTES
1. 1508 PIN CONFIGURATION SHOWN. ONLY AVAILABLE IN 1508, 2008, 2013 & 2412.
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. SEE SHEET 5 FOR PANEL MOUNT DETAILS
4. CONSULT FACTORY FOR CUSTOM WIRING.



REV	DCO	DATE
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

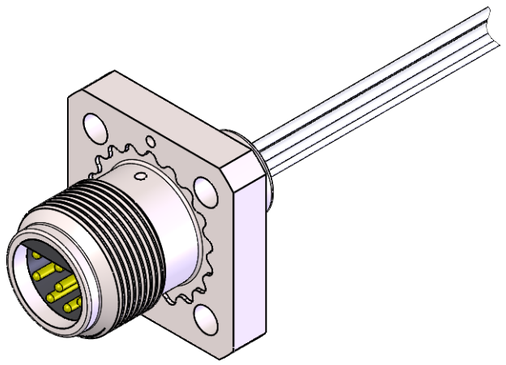
Drawing created from SolidWorks 3D model

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS	SHT
mm	M.Eyre	08/03/18		10964	7
				EPF	OF 26

SCALE	DESIGN APPROVED	DATE	DRAWING No.	REVISION
3:2	M.Eyre	20-06-2025	GDS337-G55	D.1

A3

FLANGE CONNECTOR RECEPTACLE - INDEXABLE FLANGE (FCR-IF)



SCALE 1:1
SHOWN - G5506IF-1508-0004

STANDARD INDEX FLANGE MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

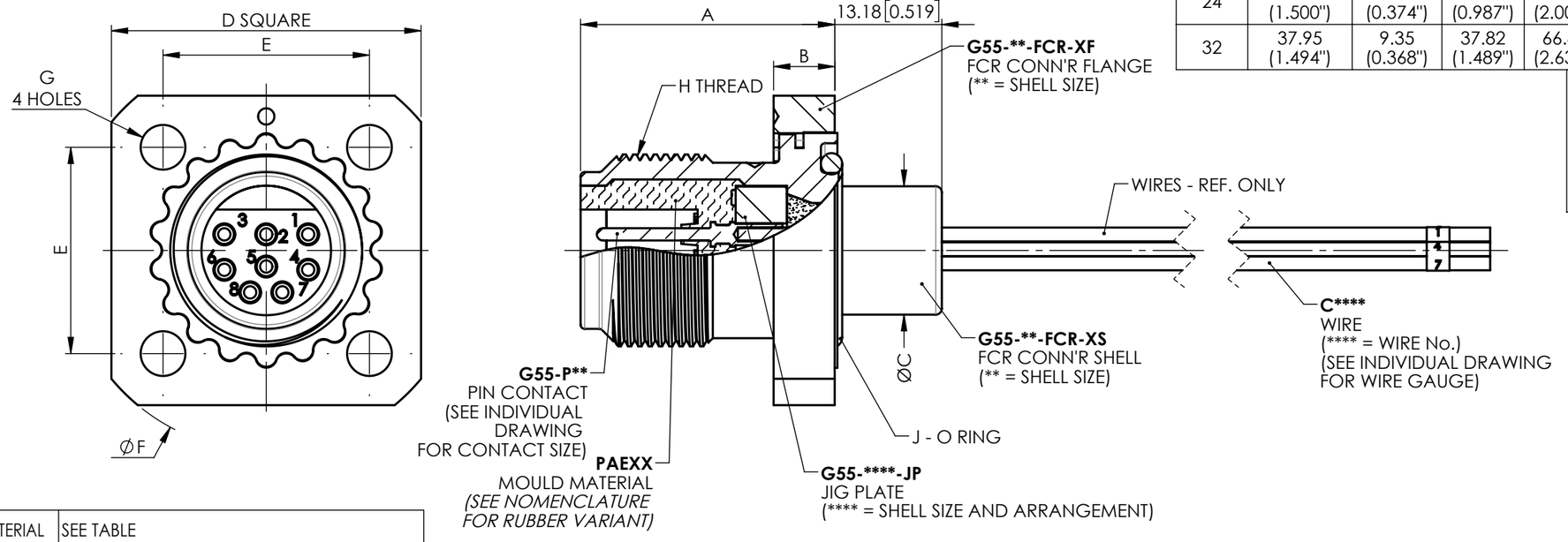
G5506IF-XXXX-XXXX-XX-CS-MCXXX

55 CONNECTOR SERIES *(FCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(SEE TABLE 3, SHEET 2)*
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

TABLE 10 - FCR EARTH LEAD DIMENSIONS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.05 (0.002")	DIM D ±0.13 (0.05")	DIM E ±0.05 (0.002")	DIM F ±0.13 (0.005")	DIM G +0.10/-0 (+0.004"/-0)	H - THREAD	J - O RING
15	31.75 (1.250")	7.98 (0.314")	15.80 (0.622")	38.10 (1.500")	25.40 (1.000")	49.50 (1.949")	5.50 (0.217")	15/16"-20 UNEF-2A	BS1806-116
20	38.10 (1.500")	9.50 (0.374")	18.73 (0.737")	44.45 (1.750")	31.75 (1.250")	58.40 (2.299")	7.00 (0.276")	1 1/4"-9 STUB ACME	BS1806-118
24	38.10 (1.500")	9.50 (0.374")	25.08 (0.987")	50.80 (2.000")	38.10 (1.500")	66.70 (2.626")	7.00 (0.276")	1 1/2"-9 STUB ACME	BS1806-122
32	37.95 (1.494")	9.35 (0.368")	37.82 (1.489")	66.80 (2.630")	50.80 (2.000")	87.65 (3.451")	7.00 (0.276")	2"-9 STUB ACME	BS1806-130

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. SEE SHEET 5 FOR PANEL MOUNT DETAILS
4. CONSULT FACTORY FOR CUSTOM WIRING.



MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

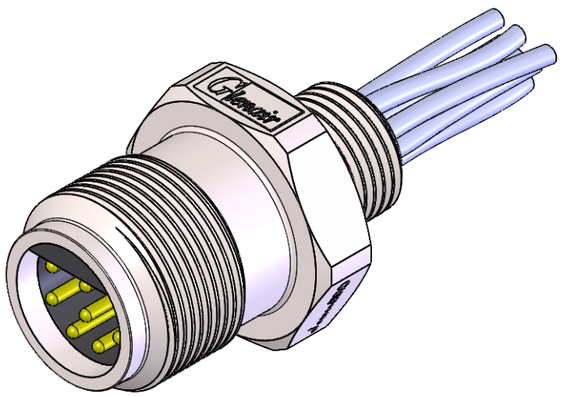
UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model | A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 8
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
3:2	M.Eyre	20-06-2025	GDS337-G55		D.1

BULKHEAD CONNECTOR RECEPTACLE (BCR)



SHOWN - G5507-1508-0004

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. ALL BCR CANNOT BE SUPPLIED UN-WRIRED. ALTERNATIVE WIRES CAN BE SUPPLIED, COAX, SCREENED PAIR, ETC.
4. CONSULT FACTORY FOR CUSTOM WIRING.

STANDARD BCR MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

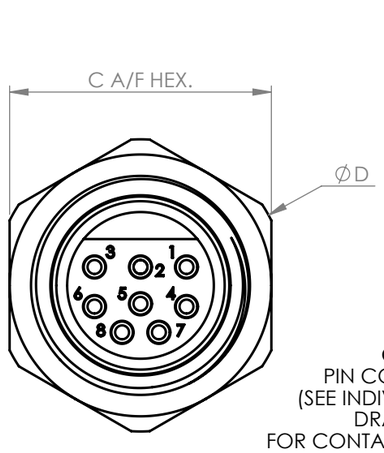
GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

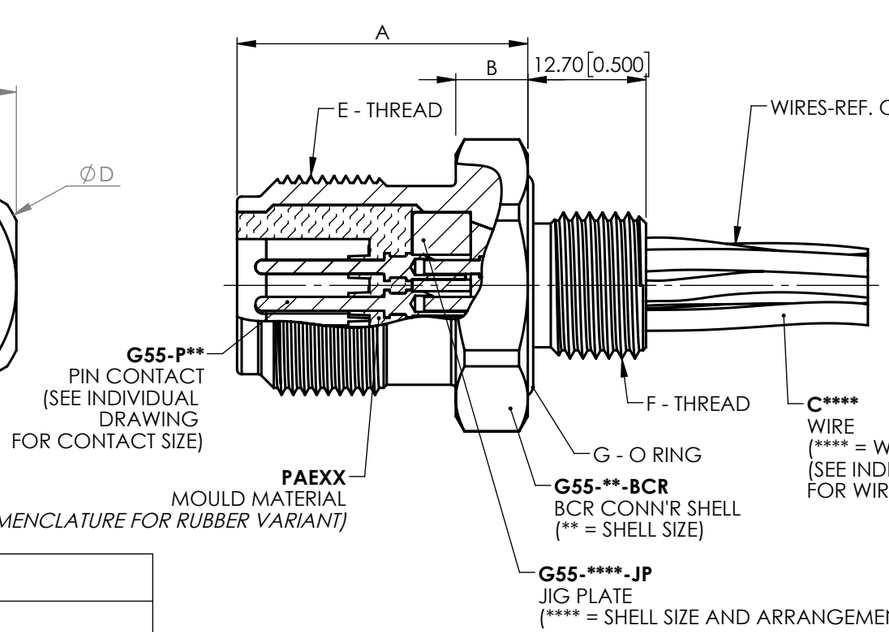
G5507-XXXX-XXXX-XX-JN-CS-MCXXX

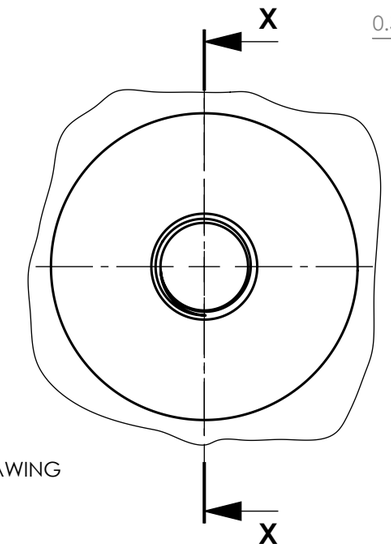
55 CONNECTOR SERIES *(BCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(SEE TABLE 3, SHEET 2)*
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
JAM NUT OPTION
(OMIT IF NOT REQUIRED)
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

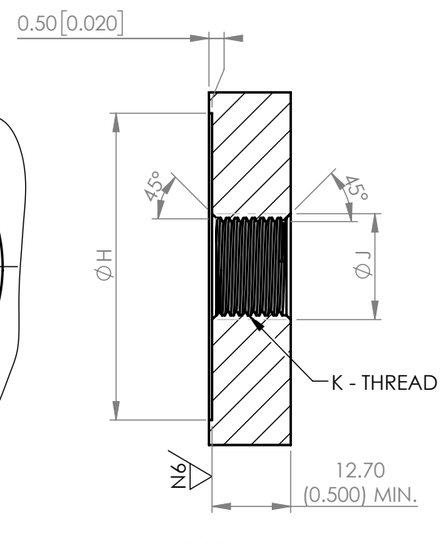
TABLE 11 - BCR DIMENSIONS & PANEL MOUNT DETAILS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.13 (0.005")	DIM D ±0.13 (0.005")	E - THREAD	F - THREAD	G - O RING	DIM H ±0.13 (0.005")	DIM J ±0.13 (0.005")	K - THREAD
15	31.75 (1.250")	7.98 (0.314")	28.45 (1.120")	31.75 (1.250")	15/16"-20 UNEF-2A	5/8"-18 UNF-2A	BS1806-116	33.02 (1.300")	17.27 (0.680")	5/8"-18UNF-2B
20	38.10 (1.500")	9.50 (0.374")	31.75 (1.250")	35.50 (1.398")	1 1/4"-9 STUB ACME	3/4"-16 UNF-2A	BS1806-118	36.58 (1.440")	20.07 (0.790")	3/4"-16UNF-2B
24	38.10 (1.500")	9.50 (0.374")	38.10 (1.500")	43.20 (1.700")	1 1/2"-9 STUB ACME	1"-14 UNS-2A	BS1806-122	43.94 (1.730")	26.67 (1.050")	1"-14UNS-2B
32	37.95 (1.494")	9.35 (0.368")	57.15 (2.250")	63.00 (2.480")	2" -9 STUB ACME	1 1/2" -12 UNF-2A	BS1806-130	58.67 (2.310")	39.37 (1.550")	1 1/2" -12 UNF-2B









SECTION X-X
SCALE 1 : 1

MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

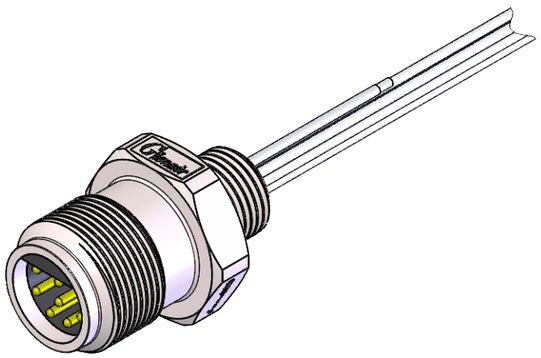
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS	SHT
mm	M.Eyre	08/03/18		10964 EPF	9 OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
3:2	M.Eyre	20-06-2025	GDS337-G55		D.1

BULKHEAD CONNECTOR RECEPTACLE - EARTHING LEAD (BCR-EL)



SCALE 1:1
SHOWN - G5507-1508-0004-EL

STANDARD EARTH LEAD MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

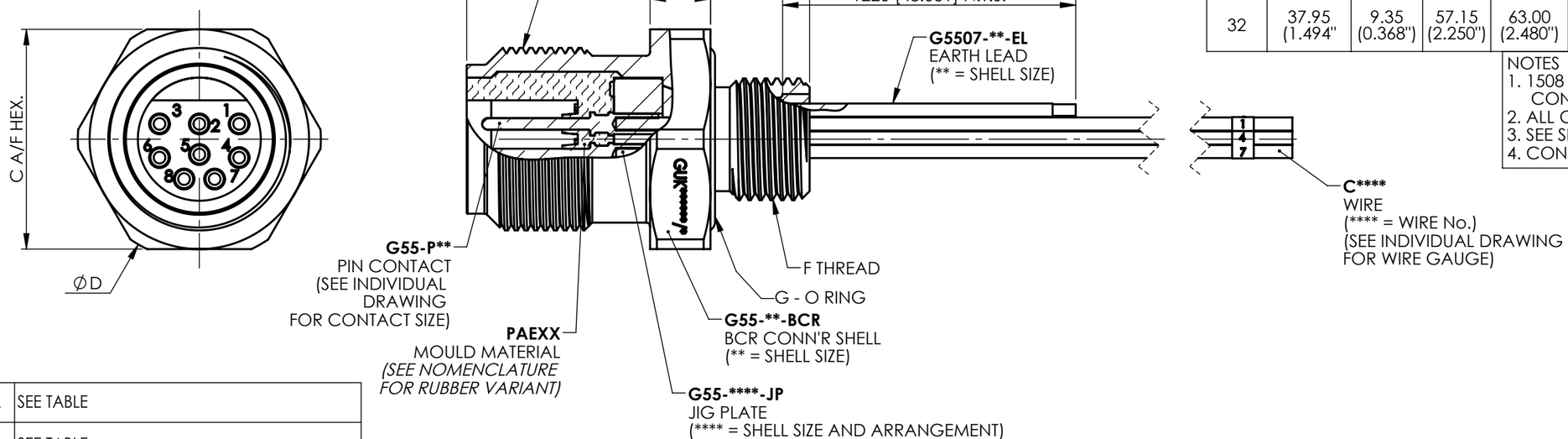
G5507-XXXX-XXXX-EL-XX-JN-CS-MCXXX

- **55 CONNECTOR SERIES** *(BCR)*
- **SHELL SIZE - INSERT ARRANGEMENT** *(SEE TABLE 4, SHEET 2)*
- **CABLE LENGTH** *(SEE TABLE 3, SHEET 2)*
  e.g. (0004 = 4ft)
  e.g. (0010 = 10ft)
  MUST BE SUPPLIED WITH CABLE
- **EARTHING LEAD MATERIAL OPTION**
  OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
  BRASS = **B**
  TITANIUM = **T**
  PEEK = **PK**
  ANODISED ALUMINIUM = **A**
  ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
  EARTH C'NUT = **E**
- **JAM NUT OPTION**
  (OMIT IF NOT REQUIRED)
- **CODE SHEET** FOR NON STANDARD CONNECTOR
  (OMIT FOR STANDARD CONNECTOR)
- **MOD CODE** FOR NON STANDARD CONNECTOR
  OMIT FOR STANDARD CONNECTOR (NEOPRENE)
  NITRILE = **MC350**
  HYPALON = **MC395**

TABLE 12 - BCR EARTH LEAD DIMENSIONS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.13 (0.005")	DIM D ±0.13 (0.005")	E - THREAD	F - THREAD	G - O RING
15	31.75 (1.250")	7.98 (0.314")	28.45 (1.120")	31.75 (1.250")	15/16"-20 UNEF-2A	5/8"-18 UNF-2A	BS1806-116
20	38.10 (1.500")	9.50 (0.374")	31.75 (1.250")	35.50 (1.398")	1 1/4"-9 STUB ACME	3/4"-16 UNF-2A	BS1806-118
24	38.10 (1.500")	9.50 (0.374")	38.10 (1.500")	43.20 (1.700")	1 1/2"-9 STUB ACME	1"-14 UNS-2A	BS1806-122
32	37.95 (1.494"	9.35 (0.368")	57.15 (2.250")	63.00 (2.480")	2" -9 STUB ACME	1 1/2" UNF-2A	BS1806-130

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. SEE SHEET 9 FOR PANEL MOUNT DETAILS
4. CONSULT FACTORY FOR CUSTOM WIRING.



MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

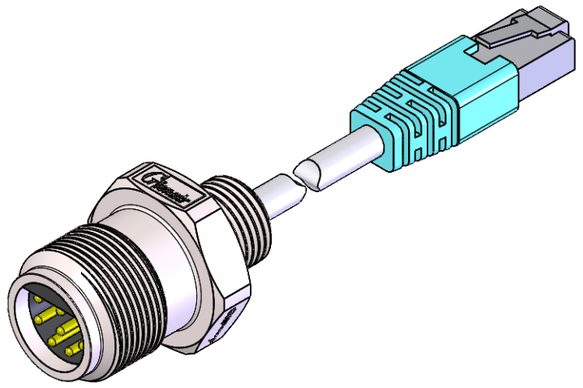
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 10
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 3:2	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

BULKHEAD CONNECTOR RECEPTACLE - ETHERNET (BCR-E)



SCALE 1:1
SHOWN - G5507-1508-E004

STANDARD ETHERNET MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

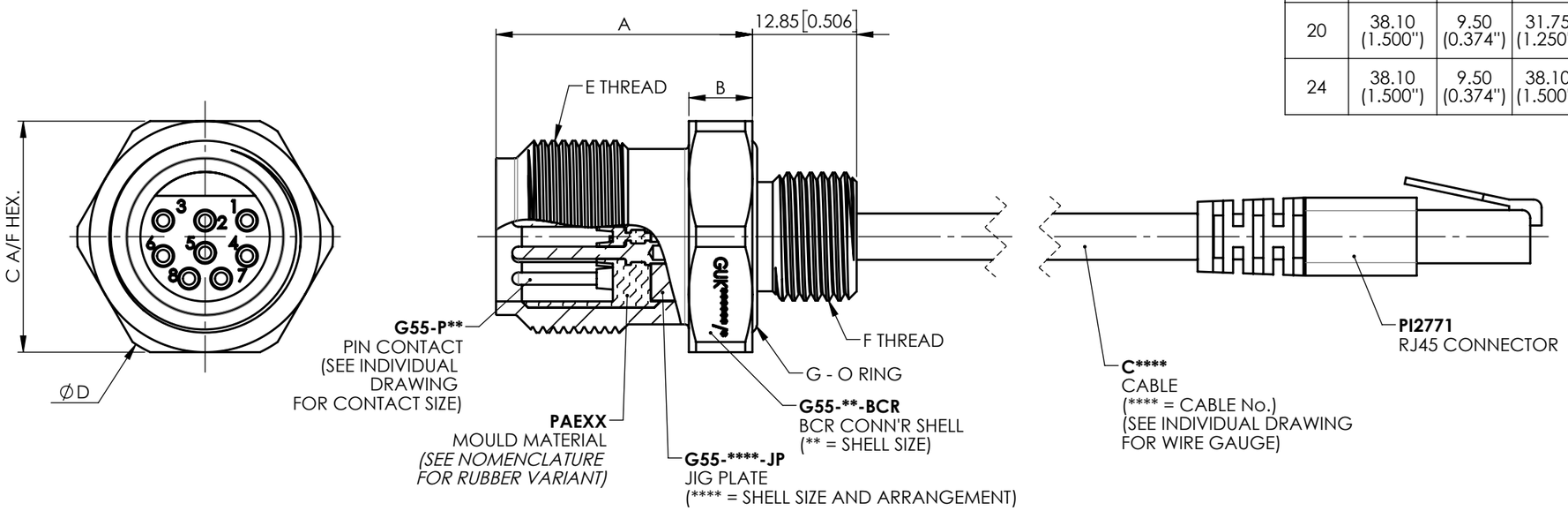
G5507-XXXX-EXXX-XX-JN-CS-MCXXX

55 CONNECTOR SERIES *(BCR)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(SEE TABLE 3, SHEET 2)*
e.g. (E004 = 4ft)
e.g. (E010 = 10ft)
MUST BE SUPPLIED WITH CABLE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
JAM NUT OPTION
(OMIT IF NOT REQUIRED)
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

TABLE 13 - BCR EARTH LEAD DIMENSIONS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.13 (0.005")	DIM D ±0.13 (0.005")	E - THREAD	F - THREAD	G - O RING
15	31.75 (1.250")	7.98 (0.314")	28.45 (1.120")	31.75 (1.250")	15/16"-20 UNEF-2A	5/8"-18 UNF-2A	BS1806-116
20	38.10 (1.500")	9.50 (0.374")	31.75 (1.250")	35.50 (1.398")	1 1/4"-9 STUB ACME	3/4"-16 UNF-2A	BS1806-118
24	38.10 (1.500")	9.50 (0.374")	38.10 (1.500")	43.20 (1.700")	1 1/2"-9 STUB ACME	1"-14 UNS-2A	BS1806-122

NOTES
1. 1508 PIN CONFIGURATION SHOWN. ONLY AVAILABLE IN 1508, 2008, 2013 & 2412.
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. SEE SHEET 9 FOR PANEL MOUNT DETAILS
4. CONSULT FACTORY FOR CUSTOM WIRING.



REV	DCO	DATE
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

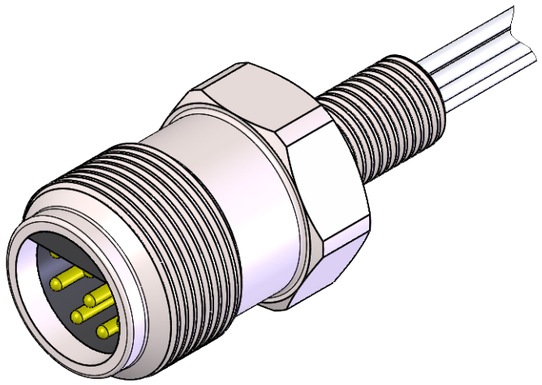
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 11
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 3:2	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

BULKHEAD CONNECTOR RECEPTACLE - MICROWET CONNECTOR (BCR-MC)



SCALE 1:1
SHOWN - G5507MC-1508-0004

STANDARD BCR-MC MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
INSULATOR - PEEK.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
O RING - NITRILE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.
50 AMPS FOR SIZE 3204 #6 AWG CONTACT.

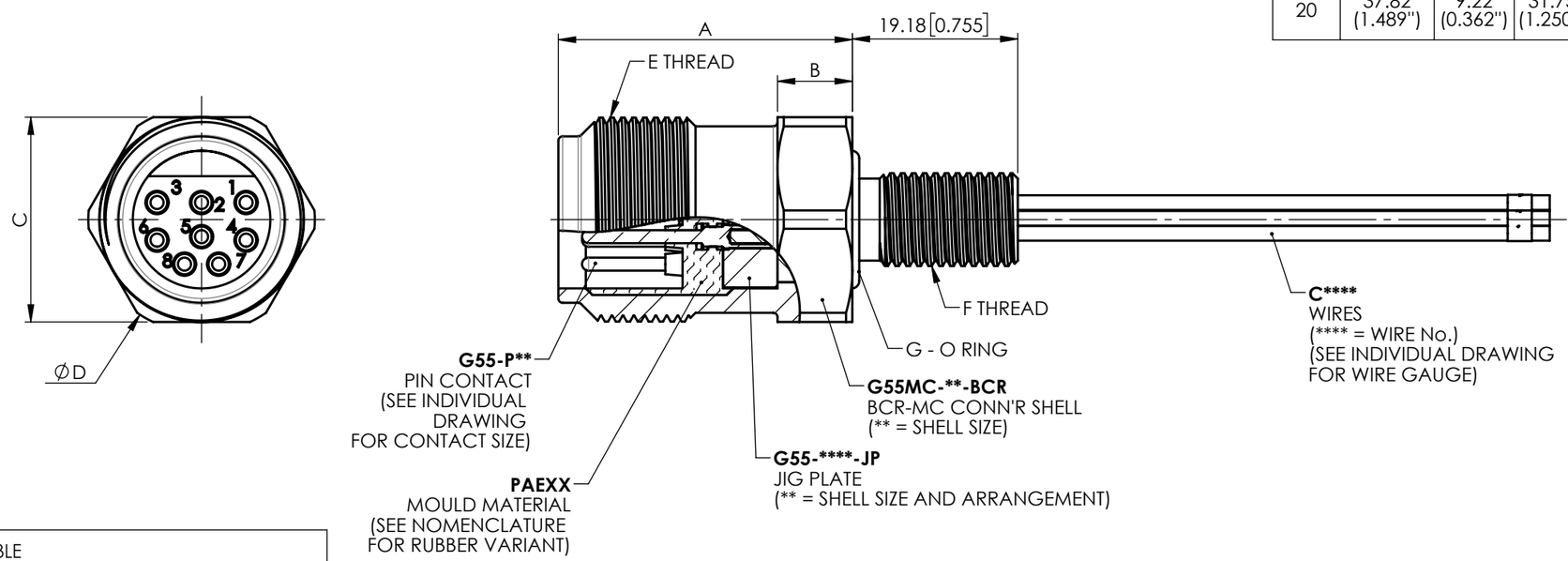
G5507MC-XXXX-XXXX-XX-CS-MCXXX

- **55 CONNECTOR SERIES** *(BCR-MC)*
- **SHELL SIZE - INSERT ARRANGEMENT** *(SEE TABLE 4, SHEET 2)*
- **CABLE LENGTH** *(SEE TABLE 3, SHEET 2)*
  e.g. (0004 = 4ft)
  e.g. (0010 = 10ft)
  MUST BE SUPPLIED WITH CABLE
- **MATERIAL OPTION**
  OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
  BRASS = **B**
  TITANIUM = **T**
  PEEK = **PK**
  ANODISED ALUMINIUM = **A**
  ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
  EARTH C'NUT = **E**
- **CODE SHEET** FOR NON STANDARD CONNECTOR
  (OMIT FOR STANDARD CONNECTOR)
- **MOD CODE** FOR NON STANDARD CONNECTOR
  OMIT FOR STANDARD CONNECTOR (NEOPRENE)
  NITRILE = **MC350**
  HYPALON = **MC395**

TABLE 14 - BCR EARTH LEAD DIMENSIONS

SHELL SIZE	DIM A ±0.26 (0.010")	DIM B ±0.39 (0.015")	DIM C ±0.13 (0.005")	DIM D ±0.13 (0.005")	E - THREAD	F - THREAD	G - O RING
15	34.07 (1.341")	8.64 (0.340")	23.72 (0.934")	26.25 (1.033")	15/16"-20 UNEF-2A	7/16"-20 UNF	BS1806-114
20	37.82 (1.489")	9.22 (0.362")	31.75 (1.250")	35.50 (1.398")	1 1/4"-9 STUB ACME	1/2" -20 -UNF-2A	BS1806-115

NOTES
1. 1508 PIN CONFIGURATION SHOWN. ONLY AVAILABLE IN SIZE 15 & 20 SHELLS.
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. SEE SHEET 9 FOR PANEL MOUNT DETAILS
4. CONSULT FACTORY FOR CUSTOM WIRING.



MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

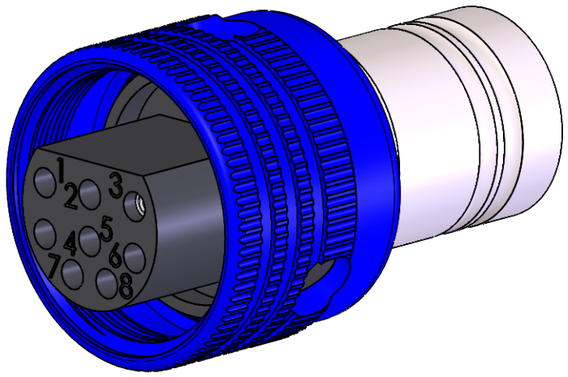
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 12
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 3:2	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

CABLE CONNECTOR PLUG - BACK TO BACK (CCP-M1)



SHOWN - G55M1-1508-0000

STANDARD CCP-M1 MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

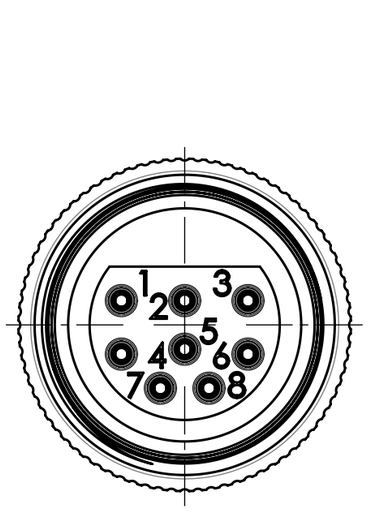
GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

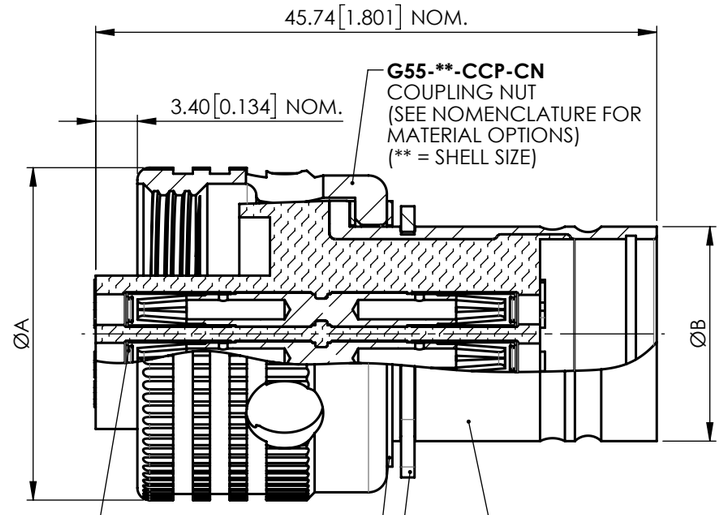
G55M1-XXXX-0000-XX-MCXXX

55 CONNECTOR SERIES *(CCP, B2B)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
CABLE LENGTH *(0000 = NO CABLE)*
CAN NOT *BE SUPPLIED WITH CABLE*
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

TABLE 15 - M1 DIMENSIONS			
SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.005 (0.002")	CIRCLIP
15	27.18 (1.070")	17.48 (0.688")	PI2340
20	36.85 (1.450")	27.76 (1.093")	PI2341
24	43.20 (1.700")	33.32 (1.312")	PI2342
32	56.77 (2.350")	46.00 (1.811")	PI2561

NOTES
1. 1508 SOCKET CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.
3. M1 CONNECTORS ARE SUPPLIED WITH LOOSE CRIMP PIN CONTACTS.





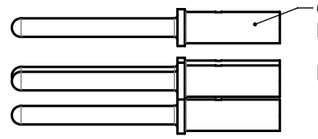
G55-****-CCP-CN**
COUPLING NUT
(SEE NOMENCLATURE FOR MATERIAL OPTIONS)
(** = SHELL SIZE)

G55-SS****
SOCKET CONTACT
(SEE INDIVIDUAL DRAWING FOR CONTACT SIZE)

G55-****-CCP-W** (x2)
WASHER
(** = SHELL SIZE)

PI ****
CIRCLIP
(SEE TABLE 11)

G55-****-CCP-2**
CONNECTOR BARREL, M1
(SEE NOMENCLATURE FOR MATERIAL OPTIONS)
(** = SHELL SIZE)



G55-PC**
PIN CONTACT
(SEE INDIVIDUAL DRAWING FOR CONTACT SIZE)

COMPONENTS SHOWN IN BOXED AREA ARE SUPPLIED SEPARATELY.

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

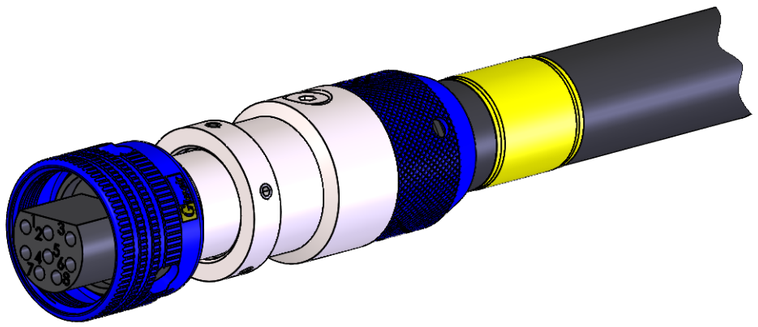
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 13
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 2:1	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

CABLE CONNECTOR PLUG OIL FILLED BACKSHELL ASSEMBLY, STRAIGHT



SHOWN - G55OF1-1508-0010
SCALE 1:1
(OPTION 2)

STANDARD OIL FILLED BACKSHELL ASSEMBLY
MATERIALS / FINISH

SHELLS - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G55OF1-XXXX-XXXX-XX-CS-MCXXX

- **55 CONNECTOR SERIES** *(OIL FILLED BACKSHELL)*
- **SHELL SIZE - INSERT ARRANGEMENT**
- **CABLE LENGTH**
  e.g. (0004 = 4ft)
  e.g. (0010 = 10ft)
  0000 = NO CABLE, NO TUBE
- **MATERIAL OPTION**
  OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
  BRASS = **B**
  TITANIUM = **T**
  ANODISED ALUMINIUM = **A**
  ST. STEEL 17-4 = **SS**
- **CODE SHEET** FOR NON STANDARD CONNECTOR
  (OMIT FOR STANDARD CONNECTOR)
- **MOD CODE** FOR NON STANDARD CONNECTOR
  OMIT FOR STANDARD CONNECTOR (NEOPRENE)
  NITRILE = **MC350**
  HYPALON = **MC395**

BACK TO BACK PBOF ASSEMBLY

G55OF1-XXXX-G55OF1-XXXX-XXXX-XX-CS-MCXXX

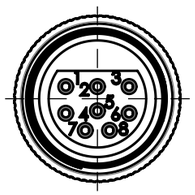
NOTES
1. 1508 SOCKET CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.

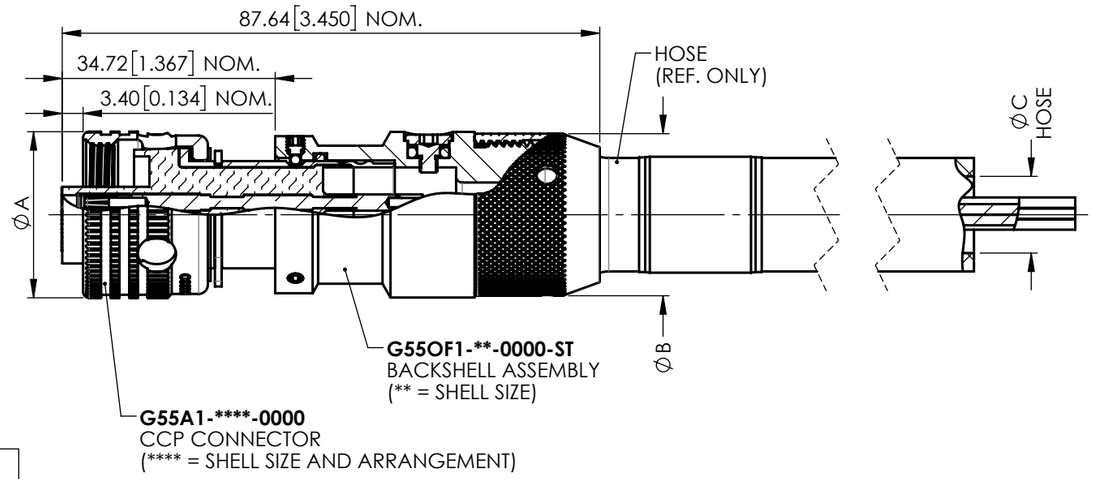
TABLE 16 - OPTIONS

OPTION No.	PART No.	DESCRIPTION
OPTION 1	**G55OF1-XXXX-0000**	1 END, G55A1-XXXX-0000, UN-WIRED CONNECTOR WITH A G55OF1-XX-0000-ST BACKSHELL ASSEMBLY & NO TUBE
OPTION 2	**G55OF1-XXXX-0010**	1 END, G55A1-XXXX-0010, WIRED (10ft) CONNECTOR WITH A G55OF1-XX-0000-ST BACKSHELL ASSEMBLY & TUBE
OPTION 3	**G55OF1-XXXX-G55OF1-XXXX-0010**	BACK TO BACK, 2 x G55A1-XXXX-0010, WIRED (10ft) CONNECTOR WITH 2 x G55OF1-XX-0000-ST BACKSHELL ASSEMBLIES & TUBE FILLED WITH OIL

TABLE 17 - OIL FILLED BACKSHELL ASSEMBLIES (CCP)

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.13 (0.005")	DIM C NOMINAL
15	27.18 (1.070")	27.00 (1.063")	12.70 (0.500")
20	36.85 (1.450")	36.60 (1.441")	19.05 (0.750")
24	43.20 (1.700")	42.84 (1.687")	19.05 (0.750")
32	56.77 (2.350")	43.40 (1.709")	25.40 (1.000")





REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE
G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

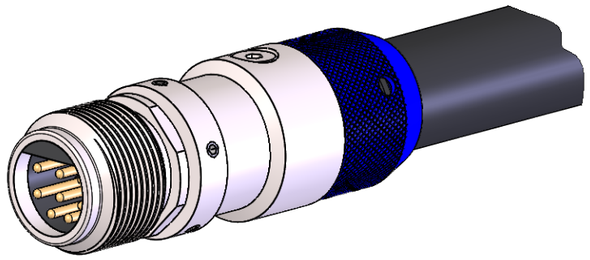
UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS	SHT
mm	M.Eyre	08/03/18		10964	14
SCALE	DESIGN APPROVED	DATE	DRAWING No.	EPF	OF 26
1:1	M.Eyre	20-06-2025	GDS337-G55	A3	REVISION D.1

CABLE CONNECTOR RECEPTACLE OIL FILLED BACKSHELL ASSEMBLY, STRAIGHT



SHOWN - G55OF2-1508-0010
OPTION 2

STANDARD OIL FILLED BACKSHELL ASSEMBLY
MATERIALS / FINISH

SHELLS - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G55OF2-XXXX-XXXX-XX-CS-MCXXX

55 CONNECTOR SERIES *(OIL FILLED BACKSHELL)*
SHELL SIZE - INSERT ARRANGEMENT
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
0000 = NO CABLE, NO TUBE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

BACK TO BACK PBOF ASSEMBLY

G55OF2-XXXX-G55OF2-XXXX-XXXX-XX-CS-MCXXX

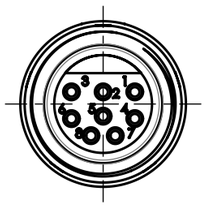
NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.

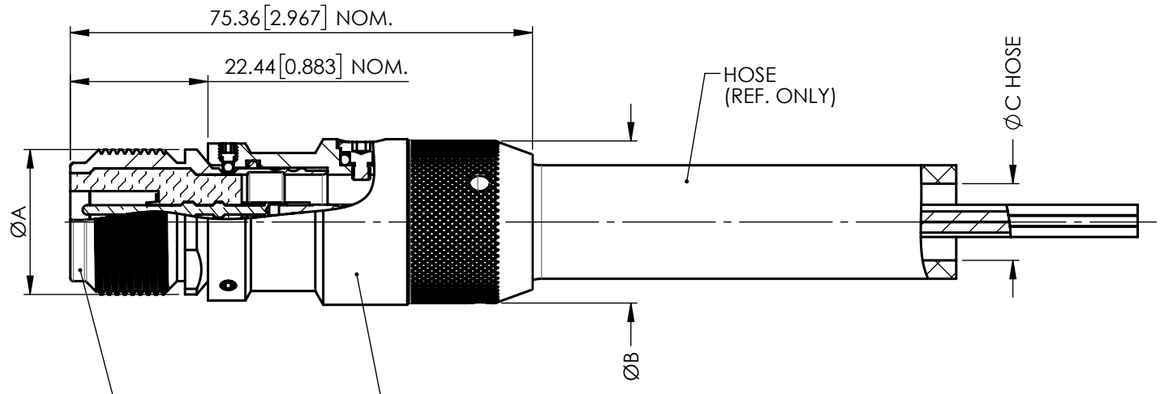
TABLE 18 - OPTIONS

OPTION No.	PART No.	DESCRIPTION
OPTION 1	**G55OF2-XXXX-0000**	1 END, G55A2-XXXX-0000, UN-WIRED CONNECTOR WITH A G55OF1-XX-0000-ST BACKSHELL ASSEMBLY & NO TUBE
OPTION 2	**G55OF2-XXXX-0010**	1 END, G55A2-XXXX-0010, WIRED (10ft) CONNECTOR WITH A G55OF1-XX-0000-ST BACKSHELL ASSEMBLY & TUBE
OPTION 3	**G55OF2-XXXX-G55OF2-XXXX-0010**	BACK TO BACK, 2 x G55A2-XXXX-0010, WIRED (10ft) CONNECTOR WITH 2 x G55OF1-XX-0000-ST BACKSHELL ASSEMBLIES & TUBE FILLED WITH OIL

TABLE 19 - OIL FILLED BACKSHELL ASSEMBLIES (CCR)

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.13 (0.005")	DIM C NOMINAL
15	23.62 (0.930")	27.00 (1.063")	12.70 (0.500")
20	31.76 (1.250")	36.60 (1.441")	19.05 (0.750")
24	38.10 (1.500")	42.84 (1.687")	19.05 (0.750")
32	TBA	TBA	TBA





MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

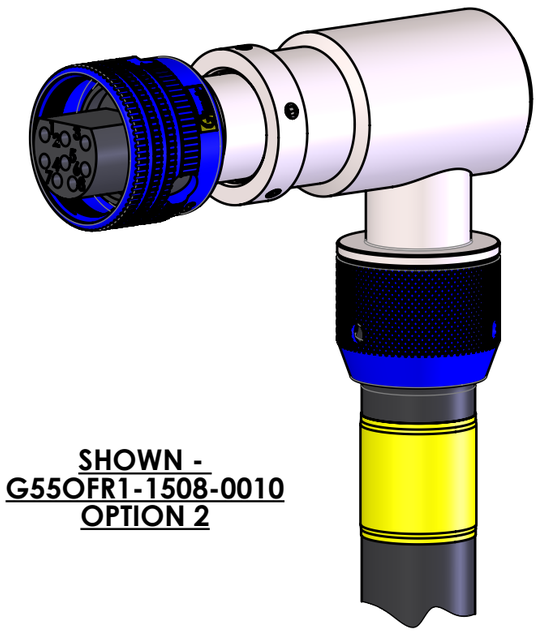
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 15
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
1:1	M.Eyre	20-06-2025	GDS337-G55		D.1

CABLE CONNECTOR PLUG OIL FILLED BACKSHELL ASSEMBLY, RIGHT ANGLE



SHOWN -
G55OFR1-1508-0010
OPTION 2

STANDARD OIL FILLED BACKSHELL ASSEMBLY
MATERIALS / FINISH

SHELLS - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G55OFR1-XXXX-XXXX-XX-CS-MCXXX

55 CONNECTOR SERIES *(OIL FILLED BACKSHELL)*
SHELL SIZE - INSERT ARRANGEMENT
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
0000 = NO CABLE, NO TUBE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

BACK TO BACK PBOF ASSEMBLY

G55OFR1-XXXX-G55OFR1-XXXX-XXXX-XX-CS-MCXXX

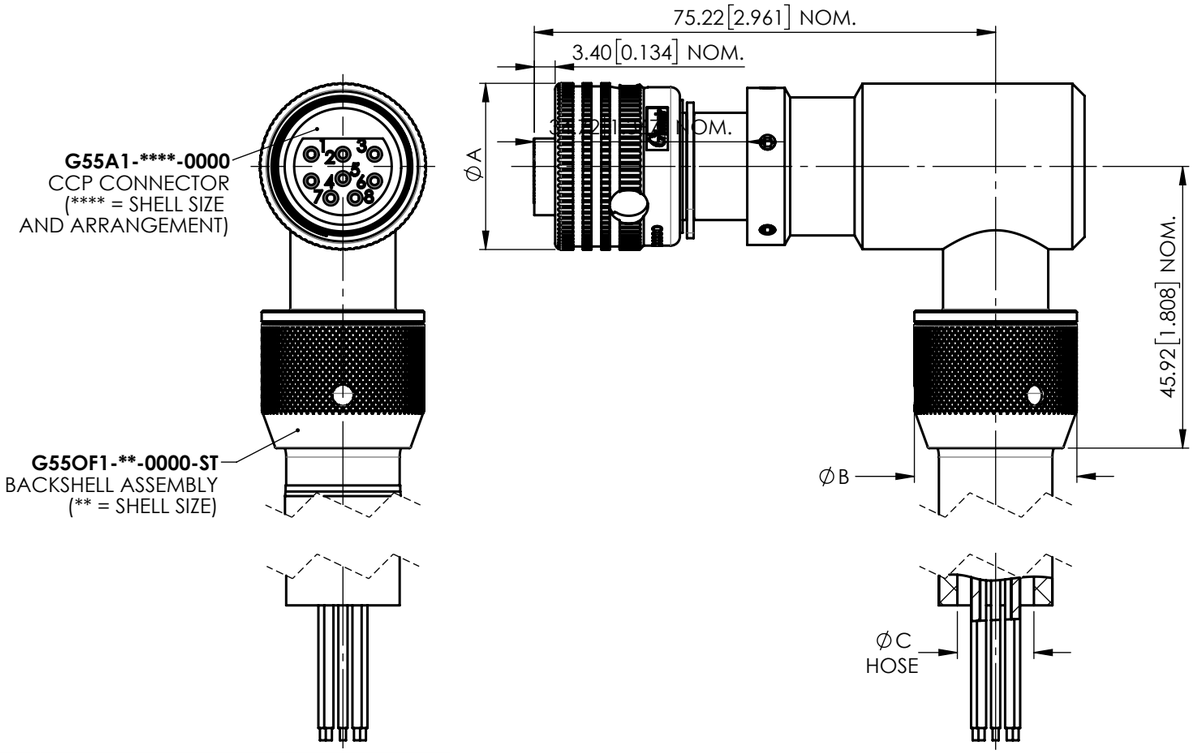


TABLE 20 - OPTIONS

OPTION No.	PART No.	DESCRIPTION
OPTION 1	**G55OFR1-XXXX-0000**	1 END, G55A1-XXXX-0000, UN-WIRED CONNECTOR WITH A G55OFR1-XX-0000 BACKSHELL ASSEMBLY & NO TUBE
OPTION 2	**G55OFR1-XXXX-0010**	1 END, G55A1-XXXX-0010, WIRED (10ft) CONNECTOR WITH A G55OFR1-XX-0000 BACKSHELL ASSEMBLY & TUBE
OPTION 3	**G55OFR1-XXXX-G55OFR1-XXXX-0010**	BACK TO BACK, 2 x G55A1-XXXX-0010, WIRED (10ft) CONNECTOR WITH 2 x G55OFR1-XX-0000 BACKSHELL ASSEMBLIES & TUBE FILLED WITH OIL

TABLE 21 - OIL FILLED BACKSHELL ASSEMBLIES (CCP)

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.13 (0.005")	DIM C NOMINAL
15	27.18 (1.070")	27.00 (1.063")	12.70 (0.500")
20	36.85 (1.450")	36.60 (1.441")	19.05 (0.750")
24	43.20 (1.700")	42.84 (1.687")	19.05 (0.750")
32	56.77 (2.350")	TBA	TBA

NOTES
1. 1508 SOCKET CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

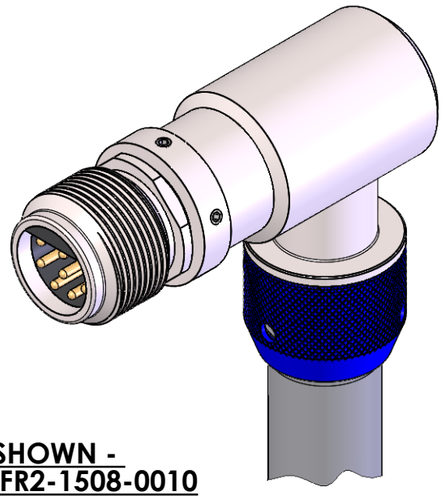
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 16	
mm	M.Eyre	08/03/18		EPF	OF 26	
SCALE	DESIGN APPROVED	DATE	DRAWING No.			REVISION
1:1	M.Eyre	20-06-2025	GDS337-G55			D.1

A3

CABLE CONNECTOR RECEPTACLE OIL FILLED BACKSHELL ASSEMBLY, RIGHT ANGLE



SHOWN -
G55OFR2-1508-0010
OPTION 2

STANDARD OIL FILLED BACKSHELL ASSEMBLY
MATERIALS / FINISH

SHELLS - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.

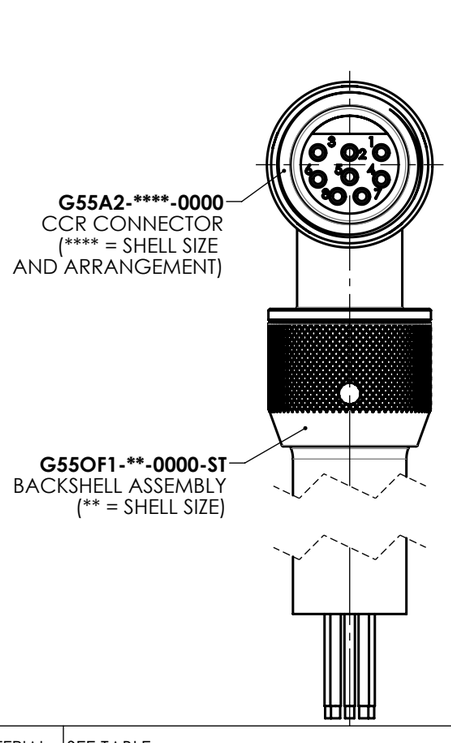
GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G55OFR2-XXXX-XXXX-XX-CS-MCXXX

55 CONNECTOR SERIES *(OIL FILLED BACKSHELL)*
SHELL SIZE - INSERT ARRANGEMENT
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
0000 = NO CABLE, NO TUBE
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

BACK TO BACK PBOF ASSEMBLY

G55OFR2-XXXX-G55OFR2-XXXX-XXXX-XX-CS-MCXXX



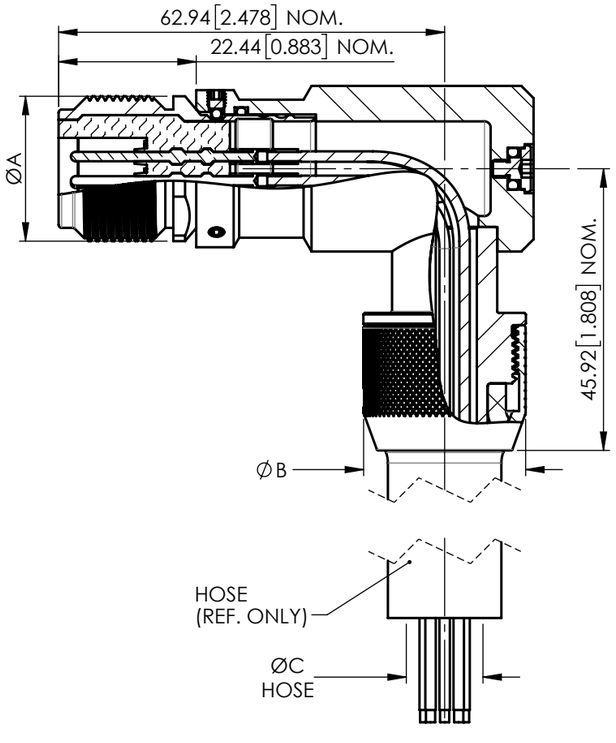


TABLE 22 - OPTIONS

OPTION No.	PART No.	DESCRIPTION
OPTION 1	**G55OFR2-XXXX-0000**	1 END, G55A2-XXXX-0000, UN-WIRED CONNECTOR WITH A G55OFR1-XX-0000 BACKSHELL ASSEMBLY & NO TUBE
OPTION 2	**G55OFR2-XXXX-0010**	1 END, G55A2-XXXX-0010, WIRED (10ft) CONNECTOR WITH A G55OFR1-XX-0000 BACKSHELL ASSEMBLY & TUBE
OPTION 3	**G55OFR2-XXXX-G55OFR2-XXXX-0010**	BACK TO BACK, 2 x G55A2-XXXX-0010, WIRED (10ft) CONNECTOR WITH 2 x G55OFR1-XX-0000 BACKSHELL ASSEMBLIES & TUBE FILLED WITH OIL

TABLE 23 - OIL FILLED BACKSHELL ASSEMBLIES (CCR)

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.13 (0.005")	DIM C NOMINAL
15	23.62 (0.930")	27.00 (1.063")	12.70 (0.500")
20	31.76 (1.250")	36.60 (1.441")	19.05 (0.750")
24	38.10 (1.500")	42.84 (1.687")	19.05 (0.750")
32	TBA	TBA	TBA

NOTES
1. 1508 SOCKET CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE.

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE
G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

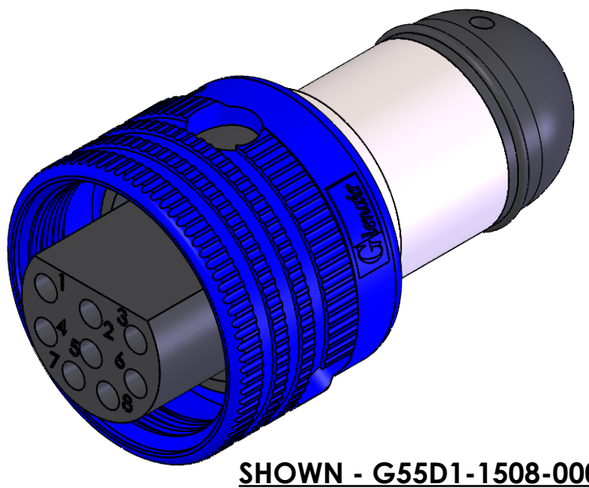
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 17
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 1:1	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

A3

DUMMY CONNECTORS - PLUG (PRESSURE PROOF)



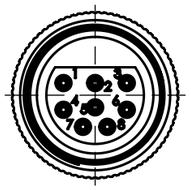
SHOWN - G55D1-1508-0000

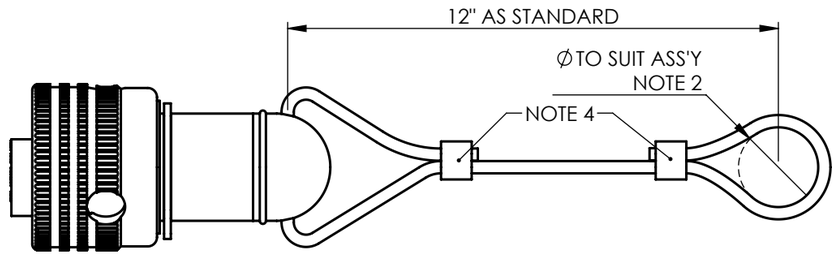
STANDARD DUMMY SEALING PLUG
MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT - 316L ST. STEEL / PROTECTIVE COATING.
INSERT / PLUG - NEOPRENE.

G55D1-XXXX-0001-XX-XX

55 CONNECTOR SERIES *(D1)*
SHELL SIZE - INSERT ARRANGEMENT *(SEE TABLE 4, SHEET 2)*
LANYARD LENGTH
e.g. 0001 = 1 FOOT LANYARD (STANDARD)
0000 = NO LANYARD
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**
ATTACHMENT TYPE *(SEE TABLE 25)*
DASH No. *(SEE TABLE 26)*
OMIT FOR STANDARD M6 LUG OR WIRE LOOP





G55D1-1508-0001-1 SCALE 1:1
DUMMY SEALING PLUG FOR RECEPTACLES, SIZE 15, 8-WAY, ST. STEEL ROPE, WIRE LOOP SHOWN FOR REFERENCE

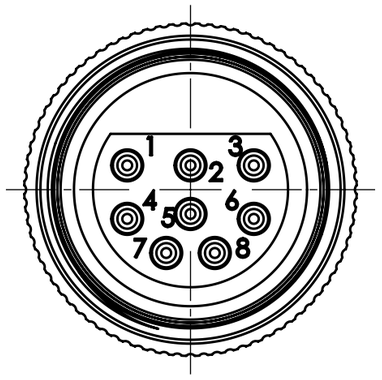
TABLE 24 - DUMMY SEALING PLUG DIMENSIONS (CCP)				
SHELL SIZE	DIM A ±0.15 (0.006")	DIM B NOMINAL	DIM C ±0.25 (0.010")	DIM D ±0.13 (0.005")
15	27.18 (1.070")	52.00 (2.047")	17.48 (0.688")	2.00 (0.079")
20	36.85 (1.450")	57.00 (2.244")	27.76 (1.093")	3.00 (0.118")
24	43.20 (1.700")	60.00 (2.362")	33.32 (1.312")	3.00 (0.118")
32	56.77 (2.350")	TBA	TBA	TBA

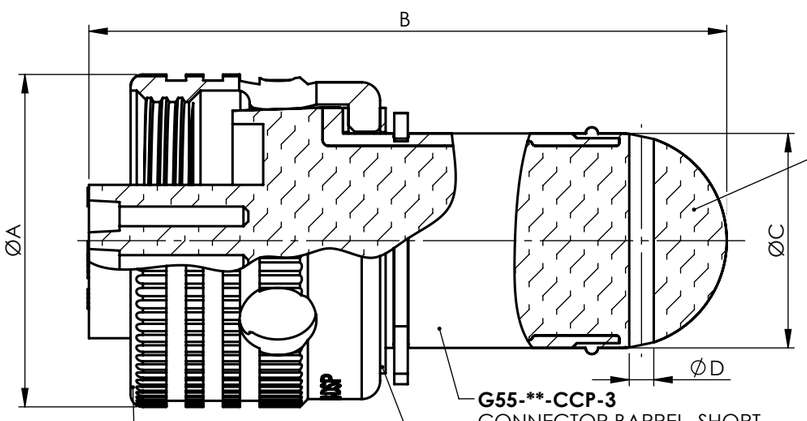
NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. WIRE LOOPS ARE SIZED TO FIT OVER CABLE WHIPS.
3. STANDARD TERMINAL LUG DIAMETER SIZE IS 6.6mm SUITABLE FOR M6 OR 1/4" FASTENERS.
4. LUG, CRIMP AND SCREW MATERIAL ST. STEEL AS STANDARD.CONTACT GLENAIR FOR CUSTOM OPTIONS.

TABLE 25 - ATTACHMENT TYPE	
SYM.	ATTACHMENT
1	ST. STEEL ROPE WITH WIRE LOOP
2	POLYESTER ROPE WITH WIRE LOOP
3	ST. STEEL ROPE WITH LUG
4	POLYESTER ROPE WITH LUG

TABLE 26 - EYELET DIA.	
DASH No.	D DIA.
A	M5 [10-32"] SIZE 15
B	M8 [5/16"] SIZE 32

STANDARD Ø6.5 (M6) SUPPLIED IF DASH No. OMITTED





PAEXX
MOULD MATERIAL
(SEE NOMENCLATURE FOR RUBBER VARIANT)

G55--CCP-3**
CONNECTOR BARREL, SHORT
(SEE NOMENCLATURE FOR MATERIAL OPTIONS)
(** = SHELL SIZE)

G55--CCP-CN**
COUPLING NUT
(SEE NOMENCLATURE FOR MATERIAL OPTIONS)
(** = SHELL SIZE)

G55--CCP-W** (x2)
WASHER
(** = SHELL SIZE)

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE
G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

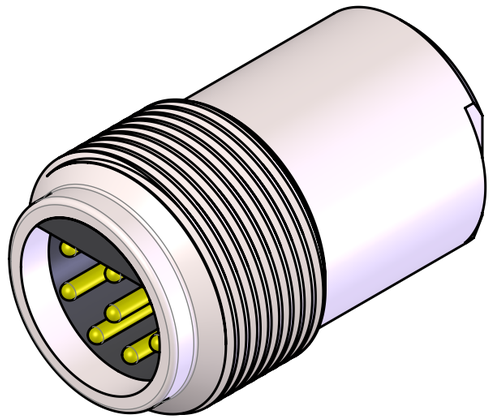
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 18
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 2:1	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

A3

DUMMY CONNECTORS - RECEPTACLE (PRESSURE PROOF)



SHOWN - G55D2-1508-0000

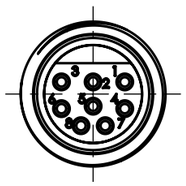
STANDARD DUMMY SEALING RECEPTACLE
MATERIALS / FINISH

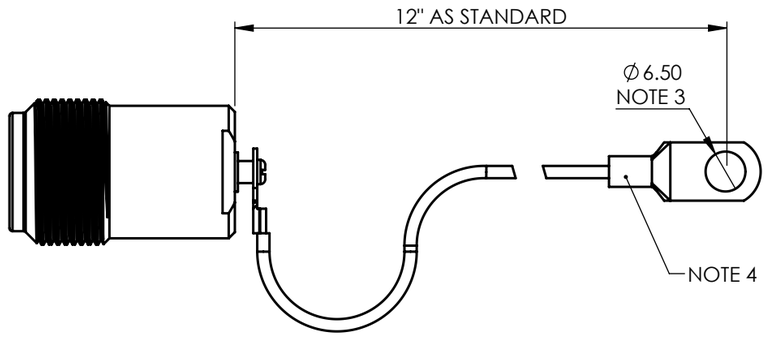
SHELL - 316L ST. STEEL / PASSIVATION.

INSERT / PLUG - NEOPRENE.

G55D2-XXXX-0001-XX-XX

- **55 CONNECTOR SERIES** *(D2)*
- **SHELL SIZE - INSERT ARRANGEMENT** *(SEE TABLE 4, SHEET 2)*
- **LANYARD LENGTH**
  e.g. 0001 = 1 FOOT LANYARD (STANDARD)
  0000 = NO LANYARD
- **MATERIAL OPTION**
  OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
  BRASS = **B**
  TITANIUM = **T**
  PEEK = **PK**
  ANODISED ALUMINIUM = **A**
  ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
  EARTH C'NUT = **E**
- **ATTACHMENT TYPE** *(SEE TABLE 28)*
- **DASH No.** *(SEE TABLE 29)*
  OMIT FOR STANDARD M6 LUG OR WIRE LOOP





G55D2-1508-0001-3 SCALE 1:1
DUMMY SEALING RECEPTACLE FOR PLUGS, SIZE 15, 8-WAY ST. STEEL ROPE, M6 LUG
SHOWN FOR REFERENCE

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. WIRE LOOPS ARE SIZED TO FIT OVER CABLE WHIPS.
3. STANDARD TERMINAL LUG DIAMETER SIZE IS 6.6mm SUITABLE FOR M6 OR 1/4" FASTENERS.
4. LUG, CRIMP AND SCREW MATERIAL ST. STEEL AS STANDARD.CONTACT GLENAIR FOR CUSTOM OPTIONS.

TABLE 27 - DUMMY SEALING PLUG DIMENSIONS (CCR)

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B NOMINAL
15	21.60 (0.850")	36.75 (1.447")
20	31.75 (1.250")	38.10 (1.500")
24	38.10 (1.500")	38.10 (1.500")
32	TBA	TBA

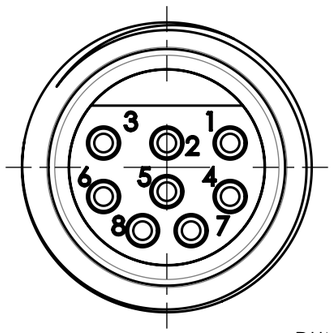
TABLE 28 - ATTACHMENT TYPE

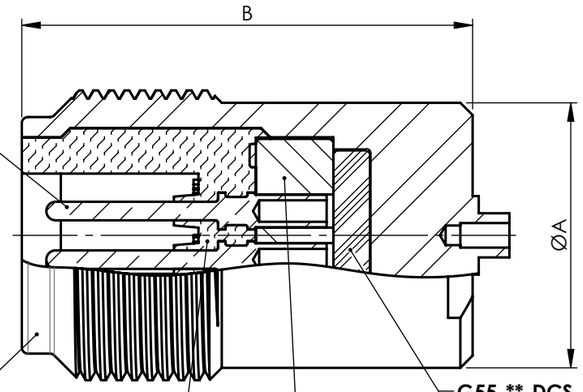
SYM.	ATTACHMENT
1	ST. STEEL ROPE WITH WIRE LOOP
2	POLYESTER ROPE WITH WIRE LOOP
3	ST. STEEL ROPE WITH LUG
4	POLYESTER ROPE WITH LUG

TABLE 29 - EYELET DIA.

DASH No.	D DIA.
A	M5 [10-32"] SIZE 15
B	M8 [5/16"] SIZE 32

STANDARD Ø6.5 (M6) SUPPLIED IF DASH No. OMITTED





G55-P**
PIN CONTACT
(SEE INDIVIDUAL DRAWING FOR CONTACT SIZE)

G55--DC**
DUMMY CONNECTOR SHELL
(SEE NOMENCLATURE FOR MATERIAL OPTIONS)
(** = SHELL SIZE)

PAEXX
MOULD MATERIAL
(SEE NOMENCLATURE FOR RUBBER VARIANT)

G55-**-JP**
JIG PLATE
(**** = SHELL SIZE AND ARRANGEMENT)

G55--DCS**
SPACER
(** = SHELL SIZE)

MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

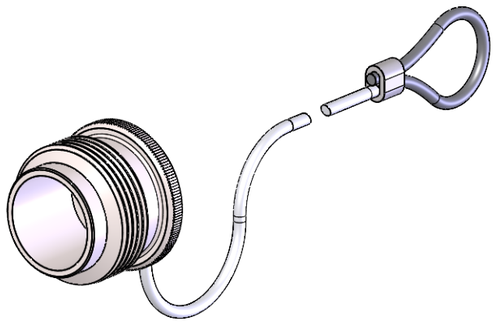
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

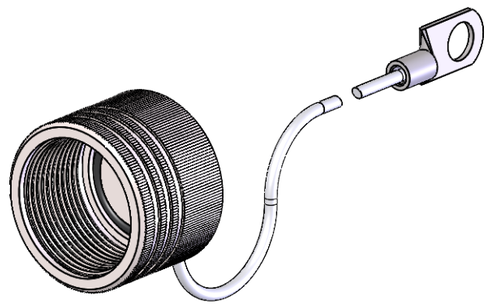
A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 19
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
2:1	M.Eyre	20-06-2025	GDS337-G55		D.1

PROTECTIVE COVERS (SPLASH PROOF)



SHOWN - G55-15-DSP-2



SHOWN - G55-15-DSR-4

STANDARD PROTECTIVE COVERS
MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.

G55-XX-DSX-XX-X-XX

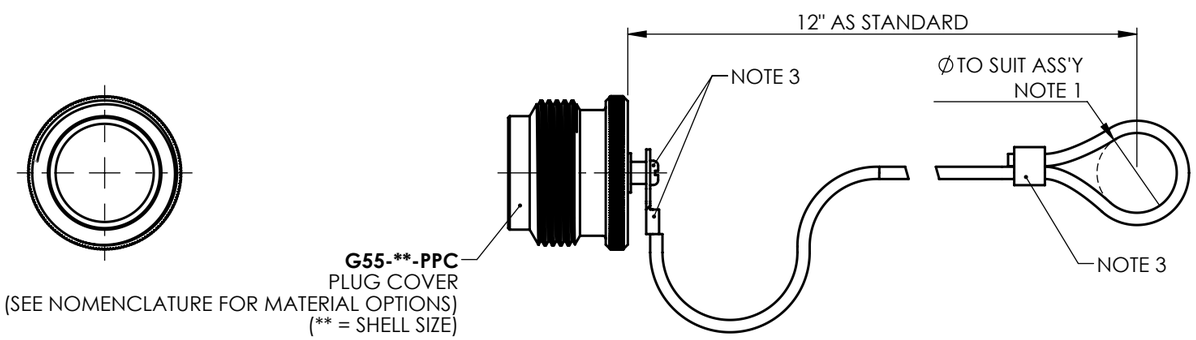
STANDARD PART NUMBER
SHELL SIZE - 15, 20, 24 or 32
DSP or DSR
DSP SEALS TO PLUGS, DSR SEALS TO RECEPTACLES
ATTACHMENT TYPE *(SEE TABLE 30)*
N = NO LANYARD
DASH No. *(SEE TABLE 31)*
OMIT FOR STANDARD M6 LUG OR WIRE LOOP
ATTACHMENT LENGTH
e.g. 9 = 9 INCHES
OMIT FOR STANDARD 12 INCH LENGTH
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
PEEK = **PK**
ANODISED ALUMINIUM = **A**
ST. STEEL 316L BODY, ST. STEEL 17-4 C'NUT = **SS**
EARTH C'NUT = **E**

NOTES
1. WIRE LOOPS ARE SIZED TO FIT OVER CABLE WHIPS.
2. STANDARD TERMINAL LUG DIAMETER SIZE IS 6.6mm SUITABLE FOR M6 OR 1/4" FASTENERS.
3. LUG, CRIMP AND SCREW MATERIAL ST. STEEL AS STANDARD. CONTACT GLENAIR FOR CUSTOM OPTIONS.

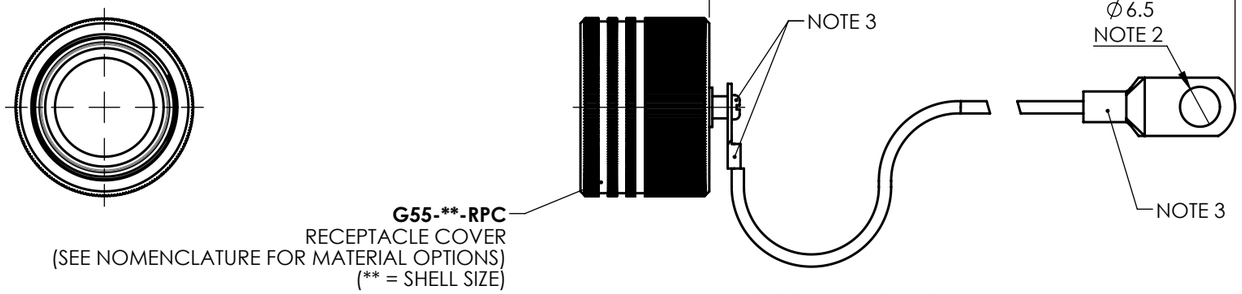
TABLE 30 - ATTACHMENT TYPE	
SYM.	ATTACHMENT
1	ST. STEEL ROPE WITH WIRE LOOP
2	POLYESTER ROPE WITH WIRE LOOP
3	ST. STEEL ROPE WITH LUG
4	POLYESTER ROPE WITH LUG

TABLE 31 - EYELET DIA.	
DASH No.	D DIA.
A	M5 [10-32"] SIZE 15
B	M8 [5/16"] SIZE 32

STANDARD Ø6.5 (M6) SUPPLIED
IF DASH No. OMITTED



G55-15-DSP-2
PROTECTIVE COVER FOR PLUG, SIZE 15, POLYESTER ROPE, WIRE LOOP
SHOWN FOR REFERENCE



G55-15-DSR-4
PROTECTIVE COVER FOR RECEPTACLE, SIZE 15, POLYESTER ROPE, M6 LUG
SHOWN FOR REFERENCE

MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

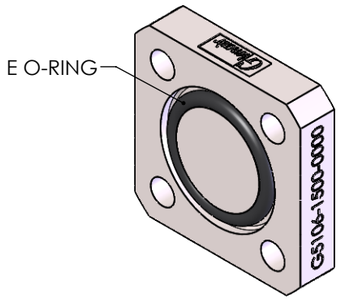
UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

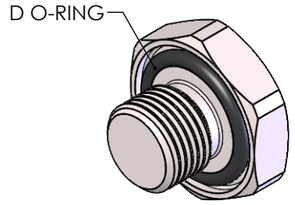
Drawing created from SolidWorks 3D model
A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 20
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
3:2	M.Eyre	20-06-2025	GDS337-G55		D.1

MOUNTING PLATE / COVER



SCALE 1:1
SHOWN - G5106-1500-0000



SCALE 1:1
SHOWN - G5107-1500-0000

STANDARD PROTECTIVE COVERS
MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.

G510X-XX00-0000-CS

55 CONNECTOR SERIES
MOUNTING PLATE/COVER
6 = MOUNTING PLATE
7 = MOUNTING COVER
SHELL SIZE 15, 20, 24 OR 32
STANDARD PART NUMBER
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
CONSULT FACTORY FOR CODE SHEET No.

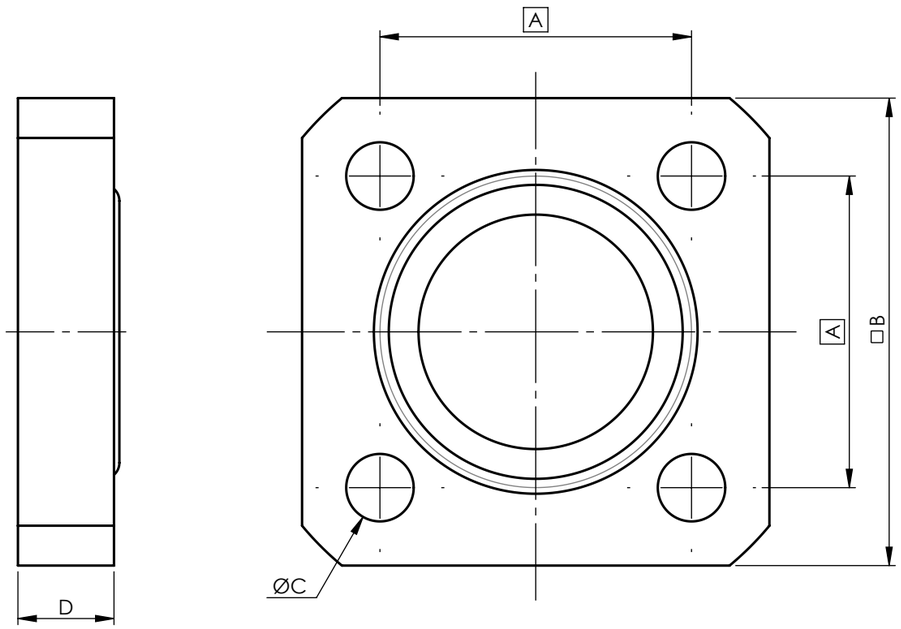
TABLE 32 - MOUNTING PLATE DIMENSIONS

SHELL SIZE	DIM A ±0.05 (0.002")	DIM B ±0.13 (0.005")	DIM C +0.10/-0 (+0.004"/-0)	DIM D ±0.39 (0.015")	E - O RING
15	25.40 (1.000")	38.10 (1.500")	5.50 (0.217")	7.98 (0.314")	BS1806-116
20	31.75 (1.250")	44.45 (1.7500")	7.00 (0.276")	9.50 (0.374")	BS1806-118
24	38.10 (1.500")	50.80 (2.000")	7.00 (0.276")	9.50 (0.374")	BS1806-122
32	50.80 (2.000")	66.80 (2.630")	7.00 (0.276")	9.35 (0.368")	BS1806-130

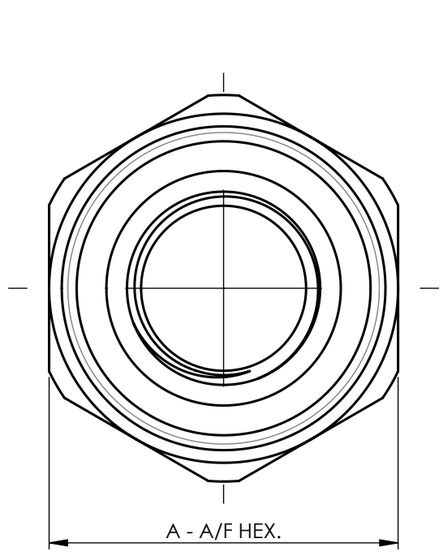
TABLE 33 - MOUNTING COVER DIMENSIONS

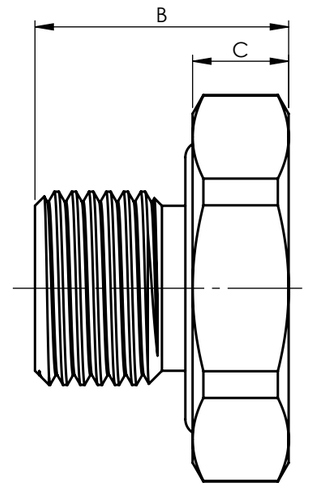
SHELL SIZE	DIM A ±0.13 (0.005")	DIM B ±0.26 (0.010")	DIM C ±0.39 (0.015")	D - O RING
15	28.45 (1.120")	20.68 (0.814")	7.98 (0.314")	BS1806-116
20	31.75 (1.250")	22.20 (0.874")	9.50 (0.374")	BS1806-118
24	38.10 (1.500")	22.20 (0.874")	9.50 (0.374")	BS1806-122
32	57.15 (2.250")	22.20 (0.874")	9.35 (0.368")	BS1806-130

MOUNTING PLATE



MOUNTING COVER





REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

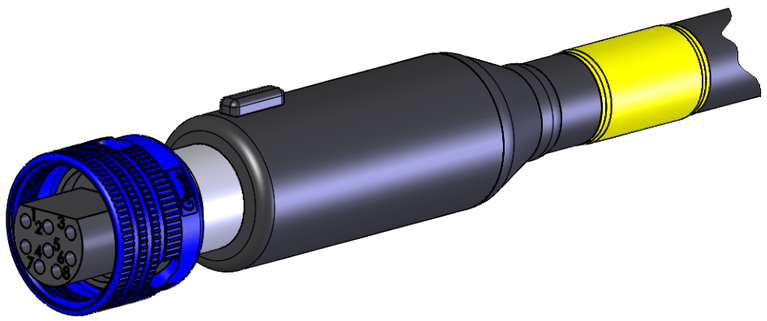
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS: mm	DRAWN BY: M.Eyre	DATE: 08/03/18	PROJECTION	DIS 10964	SHT 21	
SCALE: 2:1	DESIGN APPROVED: M.Eyre	DATE: 20-06-2025	DRAWING No.: GDS337-G55	EPF	OF 26	REVISION: D.1

CABLE CONNECTOR PLUG MOULDED ASSEMBLY, STRAIGHT



SHOWN - G5501-1508-0004

STANDARD OVERMOULDED STRAIGHT
CABLE PLUG MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
POTTING CAP - PEEK.
OVERMOULD - POLYURETHANE OR NEOPRENE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G5501-XXXX-XX-XXXX-CS-MCXXX

55 CONNECTOR SERIES *(STRAIGHT OVER MOULD)*
SHELL SIZE - INSERT ARRANGEMENT
(SEE TABLE 4, SHEET 2)
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

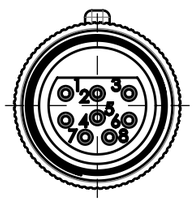
BACK TO BACK MOULDED ASSEMBLY

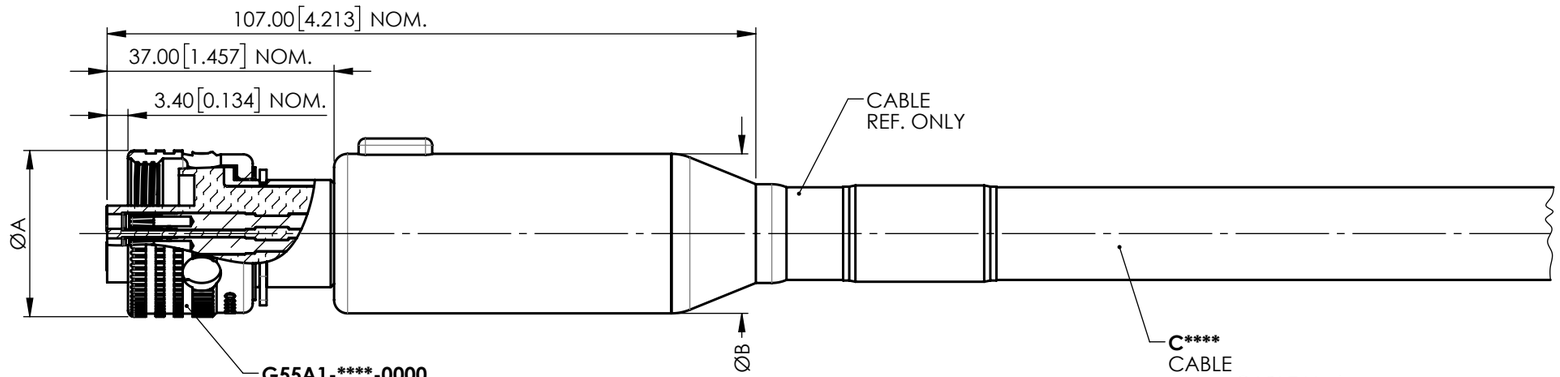
G5501-XXXX-G5501-XXXX-XX-XXXX-CS-MCXXX

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE, SEE INDIVIDUAL DRAWINGS FOR SPECIFIC WIRE GAUGE USED.
3. UNLESS REQUESTED OTHERWISE, ALL MOULDED CONNECTORS ARE SUPPLIED WITH SOOW NEOPRENE TYPE CABLE AS STANDARD.

TABLE 34 - OVERMOULDED STRAIGHT CABLE PLUG DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.25 (0.010")
15	27.18 (1.070")	25.40 (1.000")
20	36.85 (1.450")	35.05 (1.380")
24	43.20 (1.700")	41.65 (1.640")
32	56.77 (2.350")	TBA





REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE
G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

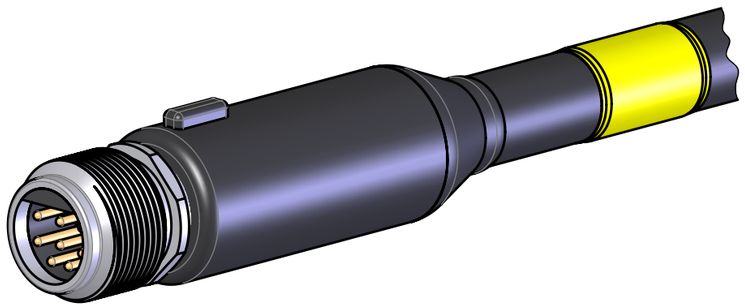
UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model
A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 22
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
1:1	M.Eyre	20-06-2025	GDS337-G55		D.1

CABLE CONNECTOR RECEPTACLE MOULDED ASSEMBLY, STRAIGHT



SHOWN - G5502-1508-0004

STANDARD OVERMOULDED STRAIGHT
CABLE RECEPTACLE MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
POTTING CAP - PEEK.
OVERMOULD - POLYURETHANE OR NEOPRENE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G5502-XXXX-XX-XXXX-CS-MCXXX

55 CONNECTOR SERIES *(STRAIGHT OVER MOULD)*
SHELL SIZE - INSERT ARRANGEMENT
(SEE TABLE 4, SHEET 2)
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

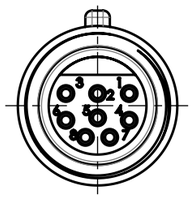
BACK TO BACK MOULDED ASSEMBLY

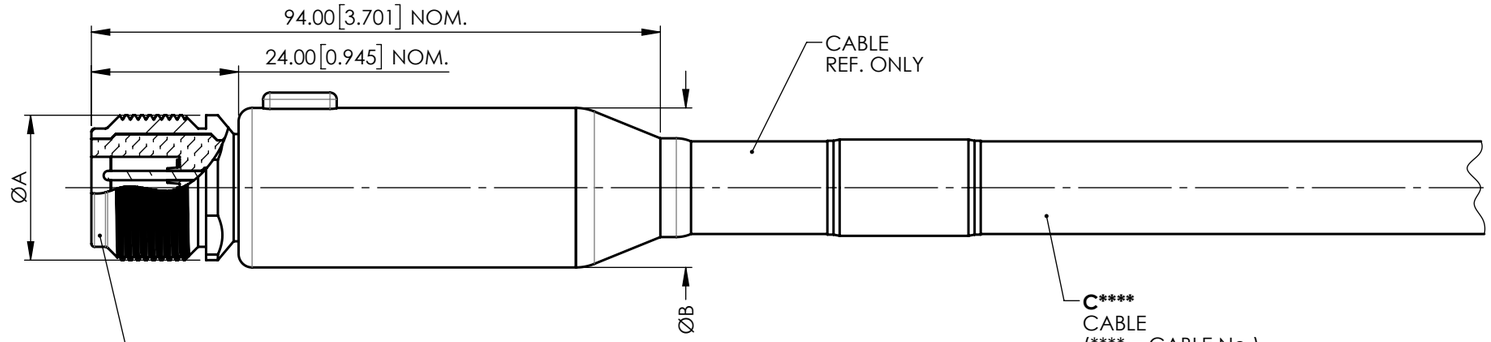
G5502-XXXX-G5502-XXXX-XX-XXXX-CS-MCXXX

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE, SEE INDIVIDUAL DRAWINGS FOR SPECIFIC WIRE GAUGE USED.
3. UNLESS REQUESTED OTHERWISE, ALL MOULDED CONNECTORS ARE SUPPLIED WITH SOOW NEOPRENE TYPE CABLE AS STANDARD.

TABLE 35 - OVERMOULDED STRAIGHT CABLE RECEPTACLE DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.25 (0.010")
15	23.62 (0.930")	25.40 (1.000")
20	31.76 (1.250")	35.05 (1.380")
24	38.10 (1.500")	41.65 (1.640")
32	TBA	TBA





REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

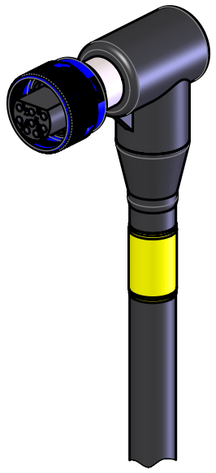
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 23
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
1:1	M.Eyre	20-06-2025	GDS337-G55		D.1

CABLE CONNECTOR PLUG MOULDED ASSEMBLY, RIGHT ANGLE



SCALE 1:2
SHOWN - G55R1-1508-0004

STANDARD OVERMOULDED RIGHT ANGLE
CABLE PLUG MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
POTTING CAP - PEEK.
OVERMOULD - POLYURETHANE OR NEOPRENE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G55R1-XXXX-XX-XXXX-CS-MCXXX

55 CONNECTOR SERIES *(STRAIGHT OVER MOULD)*
SHELL SIZE - INSERT ARRANGEMENT
(SEE TABLE 4, SHEET 2)
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

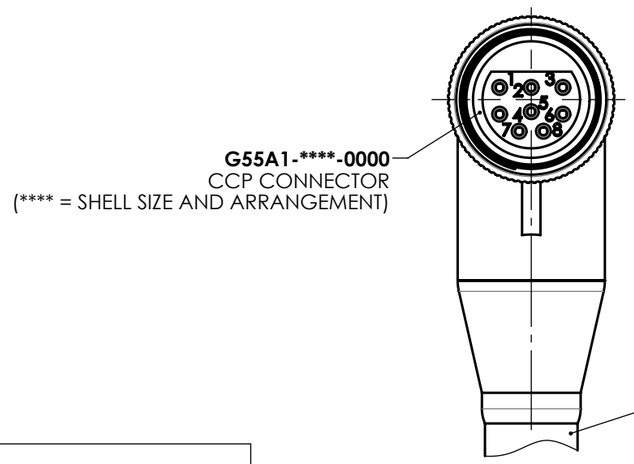
BACK TO BACK MOULDED ASSEMBLY

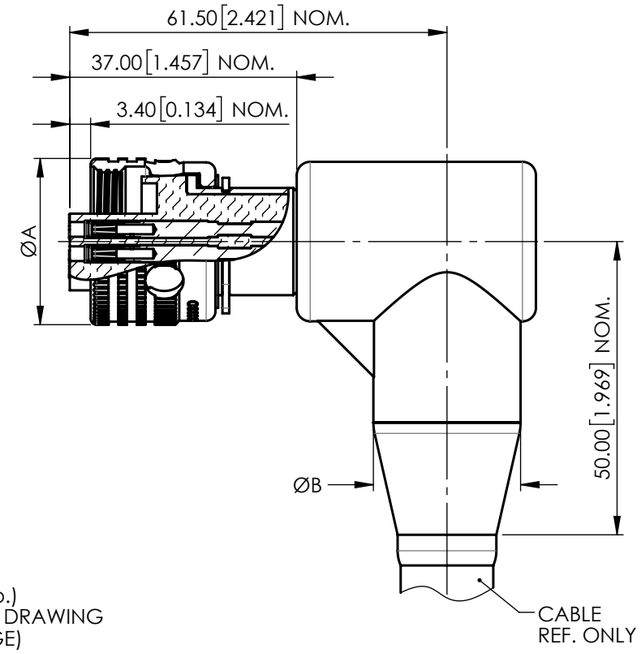
G55R1-XXXX-G55R1-XXXX-XX-XXXX-CS-MCXXX

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE, SEE INDIVIDUAL DRAWINGS FOR SPECIFIC WIRE GAUGE USED.
3. UNLESS REQUESTED OTHERWISE, ALL MOULDED CONNECTORS ARE SUPPLIED WITH SOOW NEOPRENE TYPE CABLE AS STANDARD.

TABLE 36 - OVERMOULDED RIGHT ANGLE CABLE PLUG DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.25 (0.010")
15	27.18 (1.070")	24.00 (0.945")
20	36.85 (1.450")	28.00 (1.102")
24	43.20 (1.700")	24.00 (0.945")
32	56.77 (2.350")	TBA





REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE

G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

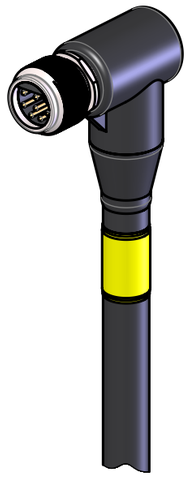
TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model

A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 24
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 1:1	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1

CABLE CONNECTOR RECEPTACLE MOULDED ASSEMBLY, RIGHT ANGLE



SCALE 1:2
SHOWN - G55R2-1508-0004

STANDARD OVERMOULDED RIGHT ANGLE CABLE RECEPTACLE MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
POTTING CAP - PEEK.
OVERMOULD - POLYURETHANE OR NEOPRENE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

G55R2-XXXX-XX-XXXX-CS-MCXXX

55 CONNECTOR SERIES *(STRAIGHT OVER MOULD)*
SHELL SIZE - INSERT ARRANGEMENT
(SEE TABLE 4, SHEET 2)
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
CODE SHEET FOR NON STANDARD CONNECTOR
(OMIT FOR STANDARD CONNECTOR)
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

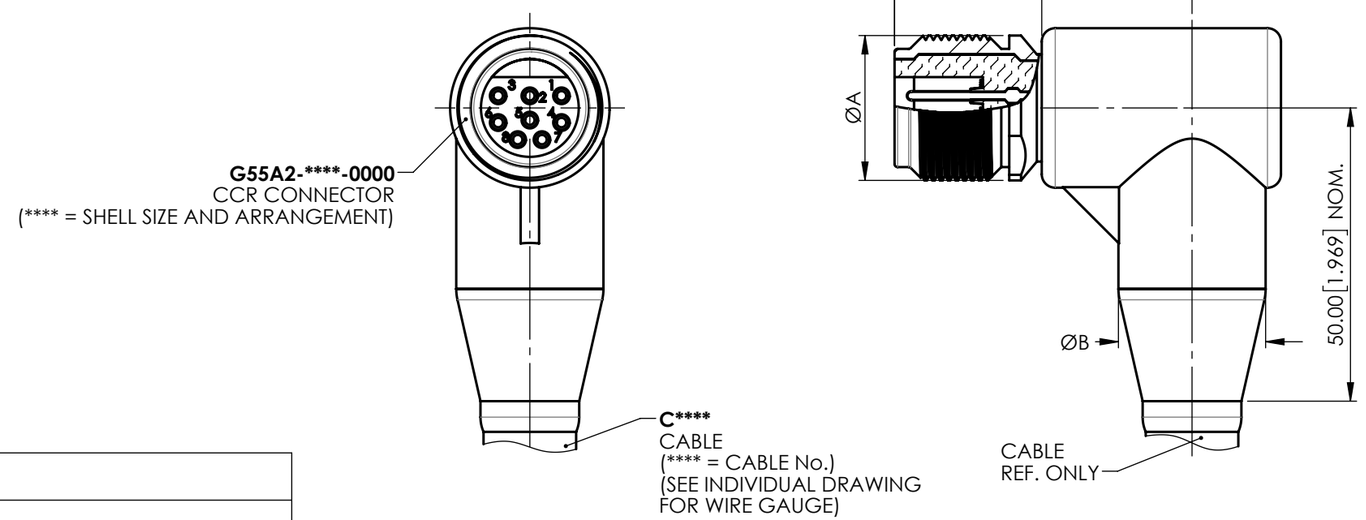
BACK TO BACK MOULDED ASSEMBLY

G55R2-XXXX-G55R2-XXXX-XX-XXXX-CS-MCXXX

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE, SEE INDIVIDUAL DRAWINGS FOR SPECIFIC WIRE GAUGE USED.
3. UNLESS REQUESTED OTHERWISE, ALL MOULDED CONNECTORS ARE SUPPLIED WITH SOOW NEOPRENE TYPE CABLE AS STANDARD.

TABLE 37 - OVERMOULDED RIGHT ANGLE CABLE PLUG DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.25 (0.010")
15	23.62 (0.930")	24.00 (0.945")
20	31.76 (1.250")	28.00 (1.102")
24	38.10 (1.500")	24.00 (0.945")
32	TBA	TBA



MATERIAL	SEE TABLE
FINISH	SEE TABLE

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE
G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

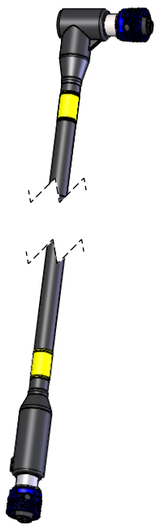
UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model
A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 25
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE	DESIGN APPROVED	DATE	DRAWING No.		REVISION
1:1	M.Eyre	20-06-2025	GDS337-G55		D.1

CABLE CONNECTOR PLUG MOULDED ASSEMBLY, STRAIGHT TO RIGHT ANGLE



SCALE 1:5 SHOWN -
G5501-1508-G55R1-1508-0004

STANDARD OVERMOULDED STRAIGHT TO 90°
CABLE PLUG MATERIALS / FINISH

SHELL - 316L ST. STEEL / PASSIVATION.
COUPLING NUT -ST. STEEL / PROTECTIVE COATING.
INSERT - NEOPRENE.
CONTACTS - COPPER ALLOY / GOLD OVER NICKEL.
POTTING CAP - PEEK.
OVERMOULD - POLYURETHANE OR NEOPRENE.

GENERAL INFORMATION :
MATING CYCLES - 500
OP. TEMP. -20°C / +90°C.
VOLTAGE RATING - 600VDC/440VAC.
CURRENT RATING (MAX.) - 5 TO 18 AMPS DEPENDANT ON CABLE AND CONDUCTOR SIZE.

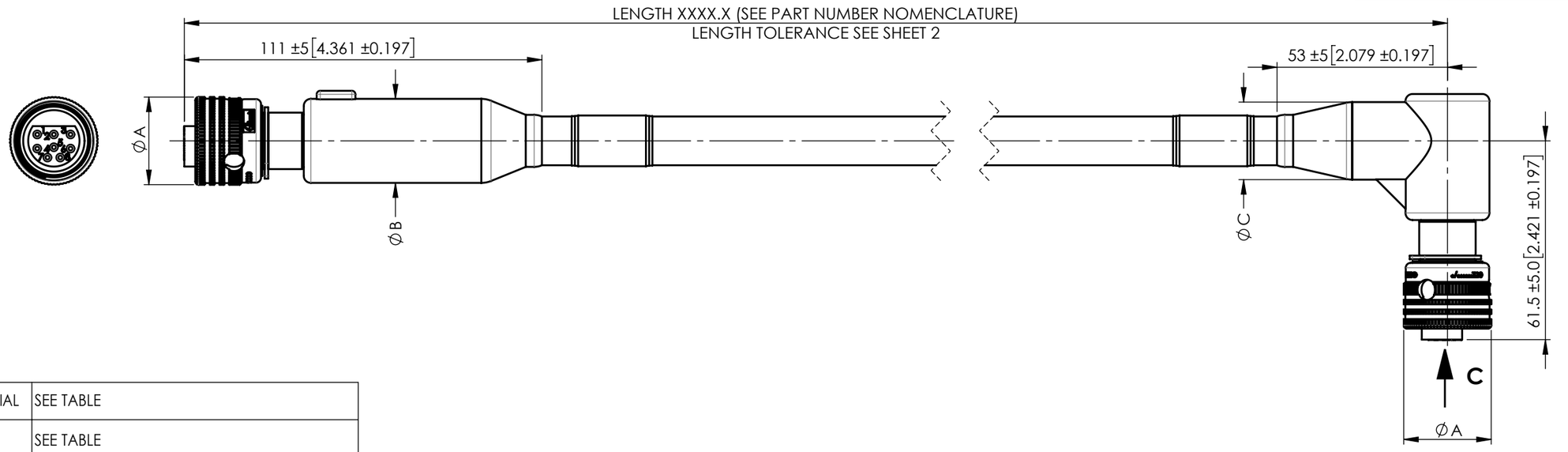
G5501-XXXX-XX-G55R1-XXXX-XX-XXXX.X-CS-MCXXX

55 CONNECTOR SERIES *(STRAIGHT OVERMOULDED)*
SHELL SIZE - INSERT ARRANGEMENT
(SEE TABLE 4, SHEET 2)
MATERIAL OPTION
OMIT FOR STANDARD CONNECTOR (ST. STEEL 316L)
BRASS = **B**
TITANIUM = **T**
ANODISED ALUMINIUM = **A**
ST. STEEL 17-4 = **SS**
55 CONNECTOR SERIES
(RIGHT ANGLE OVERMOULDED)
CABLE LENGTH
e.g. (0004 = 4ft)
e.g. (0010 = 10ft)
MUST BE SUPPLIED WITH CABLE
INCH INCREMENTS
EITHER 3, 6 OR 9 INCHES
OMIT FOR WHOLE FEET LENGTHS
CODE SHEET FOR NON STANDARD CABLE
(OMIT FOR STANDARD WIRING)
CONSULT FACTORY FOR CODE SHEET No.
MOD CODE FOR NON STANDARD CONNECTOR
OMIT FOR STANDARD CONNECTOR (NEOPRENE)
NITRILE = **MC350**
HYPALON = **MC395**

NOTES
1. 1508 PIN CONFIGURATION SHOWN. OTHER PIN CONFIGURATIONS AVAILABLE (SEE SHEET 2).
2. ALL CONTACTS / PIN CONFIGURATIONS SUIT 16 AWG WIRE, SEE INDIVIDUAL DRAWINGS FOR SPECIFIC WIRE GAUGE USED.
3. UNLESS REQUESTED OTHERWISE, ALL MOULDED CONNECTORS ARE SUPPLIED WITH SOOW NEOPRENE TYPE CABLE AS STANDARD.
4. ANY COMBINATION OF CCP & CCR ARE AVAILABLE, CONSULT FACTORY FOR PART NUMBER.

TABLE 38 - OVERMOULDED STRAIGHT TO RIGHT ANGLE CABLE PLUG DIMENSIONS

SHELL SIZE	DIM A ±0.15 (0.006")	DIM B ±0.25 (0.010")	DIM C ±0.25 (0.010")
15	27.18 (1.070")	25.40 (1.000")	24.00 (0.945")
20	36.85 (1.450")	35.05 (1.380")	28.00 (1.102")
24	43.20 (1.700")	41.65 (1.640")	24.00 (0.945")
32	56.77 (2.350")	TBA	TBA



VIEW C

REV	DCO	DATE
E	15874	26/06/2025
D	15682	19/03/2025
C	15022	08/05/2024
B	13995	27/07/22

MATERIAL	SEE TABLE
FINISH	SEE TABLE

GLENAIR UK LTD
OAKHAM BUSINESS PARK
MANSFIELD, NOTTINGHAMSHIRE
UNITED KINGDOM

TITLE
G55 CONNECTOR RANGE
SUB-SEA CONNECTORS

UNLESS OTHERWISE STATED
THE POSITION OF ANY BASIC SIZE HOLES ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES Ø0.20
ALL DIMENSIONS RELATIVE TO DATUM ARE SUBJECT TO THE FOLLOWING GEOMETRIC TOLERANCES 0.06
SURFACE CONDITIONS SEE GDS251

TOLERANCES
.XX = ± 0.13
.X = ± 0.25
HOLES = ± 0.08
ANGLES = ± 0.5°

Drawing created from SolidWorks 3D model
A3

DIMENSIONS	DRAWN BY	DATE	PROJECTION	DIS 10964	SHT 26
mm	M.Eyre	08/03/18		EPF	OF 26
SCALE 2:3	DESIGN APPROVED M.Eyre	DATE 20-06-2025	DRAWING No. GDS337-G55		REVISION D.1