

REQUEST FOR QUOTATION

(THIS IS NOT AN ORDER)

THIS RFG IS IS NOT A SMALL BUSINESS SETASIDE

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1. REQUEST NO. NNS15558010Q	2. DATE ISSUED 08/24/2015	3. REQUISITION/PURCHASE REQUEST NO. 4200558010	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG.1	RATING
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5a. ISSUED BY NASA/Stennis Space Center
Office of Procurement
Building 1100 Room 251H
Stennis Space Center MS 39529-6000

6. DELIVERY BY (Date)
Multiple

7. DELIVERY
 FOB DESTINATION OTHER (See Schedule)

5b. FOR INFORMATION CALL: (No collect calls)

NAME GEORGE PICCOLO	TELEPHONE NUMBER AREA CODE 228 NUMBER 688-1879
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9. DESTINATION
a. NAME OF CONSIGNEE
NASA/Stennis Space Center

b. STREET ADDRESS

8. TO:

a. NAME	b. COMPANY
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c. STREET ADDRESS

c. CITY
Stennis Space Center

d. CITY	e. STATE MS	f. ZIP CODE 39529-6000	d. STATE MS	e. ZIP CODE 39529-6000
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10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date)
09/03/2015 1630 CT

IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.

11. SCHEDULE (Include applicable Federal, State and local taxes)

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
002	B2 Elect Interface Conn TVP00RW19-ADP LC	60	EA		
003	B2 Elect Interface Conn TV06RW19-ADS LC	60	EA		
004	B2 Elect Interface Conn TVP00RW19-28P	50	EA		
Continued					

12. DISCOUNT FOR PROMPT PAYMENT

a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS	
			NUMBER	PERCENTAGE

NOTE: Additional provisions and representations are are not attached

13. NAME AND ADDRESS OF QUOTER			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER			16. SIGNER		b. TELEPHONE	
b. STREET ADDRESS						
c. COUNTY			a. NAME (Type or print)		AREA CODE	
d. CITY			e. STATE		f. ZIP CODE	
			c. TITLE (Type or print)		NUMBER	

CONTINUATION SHEET

REFERENC... OF DOCUMENT BEING CONTINUED
NNS15558010Q

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
005	B2 Elect Interface Conn TV06RW19-28S	50	EA		
006	B2 Elect Interface Conn TVP00RW25-46S LC	120	EA		
007	B2 Elect Interface Conn TV06RW25-46P LC	120	EA		
008	B2 Elect Interface Conn TVP00RW25-26P LC	6	EA		
009	B2 Elect Interface Conn TV06RW25-26S LC	6	EA		
010	B2 Elect Interface Conn TVP00RW25-26S LC	15	EA		
011	B2 Elect Interface Conn TV06RW25-26P LC	6	EA		
012	B2 Elect Interface Conn PT02E-14-12S	50	EA		
013	B2 Elect Interface Conn PT06SE-14-12P SR	50	EA		
014	B2 Elect Interface Conn PT02E-18-11S	15	EA		
Continued ...					

CONTINUATION SHEET

REFERENC . OF DOCUMENT BEING CONTINUED
NNS155b010Q

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
015	B2 Elect Interface Conn PT06SE-18-11P SR	15	EA		
016	B2 Elect Interface Conn PT02E-14-5S	20	EA		
017	B2 Elect Interface Conn PT06SE-14-5P SR	10	EA		
018	B2 Elect Interface Conn PT02E-14-5P	10	EA		
019	B2 Elect Interface Conn PT06SE-14-5S SR	10	EA		
020	B2 Elect Interface Conn m39029/58-353	6200	EA		
021	B2 Elect Interface Conn M39029/56-351	6300	EA		
022	B2 Elect Interface Conn 21-033592-031	400	EA		
023	B2 Elect Interface Conn 21-033591-031	425	EA		
024	B2 Elect Interface Conn M39029/56-352	600	EA		
025	B2 Elect Interface Conn M39029/58-364 Continued ...	600	EA		

CONTINUATION SHEET

REFERENCE OF DOCUMENT BEING CONTINUED
NNS15550010Q

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
026	B2 Elect Interface Conn M39029/58-365	100	EA		
027	B2 Elect Interface Conn M39029/56-353	150	EA		
028	B2 Elect Interface Conn BN001SRL18104HW	60	EA		
029	B2 Elect Interface Conn BN002SRL18104HW	50	EA		
030	B2 Elect Interface Conn BN001SRL24104HW	132	EA		

The contractor shall provide all resources necessary to provide the following Electrical Interface Connectors as described in Attachment 1, titled "Statement of Work, B2 Test Stand – Video System Connectors". Pages 1-24

Quotes are to be itemized in the same order as listed in Specification.

The Government anticipates the award of a firm-fixed priced purchase order resulting from this solicitation.

2. INVOICES

The Contractor shall submit invoices to the following address:

NASA Shared Services Center (NSSC)
Financial Management Division (FMD) – Accounts Payable
Bldg. 1111, C. Road
Stennis Space Center, MS 39529
Email: NSSC-AccountsPayable@nasa.gov
Fax: 866-209-5415
Reference: Purchase Order # NNS15AA82P

3. PERIOD OF PERFORMANCE

The period of performance of this purchase order shall be eight weeks from the date of award.

4. CONTRACT CLAUSES

The following FAR clauses are included in full text:

52.212-5 -- Contract Terms and Conditions Required to Implement Statutes or Executive Orders -- Commercial Items.

As prescribed in 12.301(b)(4), insert the following clause:

Contract Terms and Conditions Required to Implement Statutes or Executive Orders -- Commercial Items (May 2015)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

- (1) 52.209-10, Prohibition on Contracting with Inverted Domestic Corporations (Dec 2014)
- (2) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(3) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Public Laws 108-77, 108-78 (19 U.S.C. 3805 note)).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the contracting officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

[Contracting Officer check as appropriate.]

(1) 52.203-6, Restrictions on Subcontractor Sales to the Government (Sept 2006), with Alternate I (Oct 1995) (41 U.S.C. 4704 and 10 U.S.C. 2402).

(2) 52.203-13, Contractor Code of Business Ethics and Conduct (Apr 2010) (41 U.S.C. 3509).

(3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (Jun 2010) (Section 1553 of Pub L. 111-5) (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009).

(4) 52.204-10, Reporting Executive compensation and First-Tier Subcontract Awards (Jul 2013) (Pub. L. 109-282) (31 U.S.C. 6101 note).

(5) [Reserved]

(6) 52.204-14, Service Contract Reporting Requirements (Jan 2014) (Pub. L. 111-117, section 743 of Div. C).

(7) 52.204-15, Service Contract Reporting Requirements for Indefinite-Delivery Contracts (Jan 2014) (Pub. L. 111-117, section 743 of Div. C).

(8) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (Aug 2013) (31 U.S.C. 6101 note).

(9) 52.209-9, Updates of Publicly Available Information Regarding Responsibility Matters (Jul 2013) (41 U.S.C. 2313).

(10) [Reserved]

(11) (i) 52.219-3, Notice of HUBZone Set-Aside or Sole-Source Award (Nov 2011) (15 U.S.C. 657a).

(ii) Alternate I (Nov 2011) of 52.219-3.

(12) (i) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Oct 2011) (if the offeror elects to waive the preference, it shall so indicate in its offer)(15 U.S.C. 657a).

(ii) Alternate I (Jan 2011) of 52.219-4.

(13) [Reserved]

(14) (i) 52.219-6, Notice of Total Small Business Aside (Nov 2011) (15 U.S.C. 644).

- (ii) Alternate I (Nov 2011).
- (iii) Alternate II (Nov 2011).
- (15) (i) 52.219-7, Notice of Partial Small Business Set-Aside (June 2003) (15 U.S.C. 644).
- (ii) Alternate I (Oct 1995) of 52.219-7.
- (iii) Alternate II (Mar 2004) of 52.219-7.
- (16) 52.219-8, Utilization of Small Business Concerns (Oct 2014) (15 U.S.C. 637(d)(2) and (3)).
- (17) (i) 52.219-9, Small Business Subcontracting Plan (Oct 2014) (15 U.S.C. 637 (d)(4)).
- (ii) Alternate I (Oct 2001) of 52.219-9.
- (iii) Alternate II (Oct 2001) of 52.219-9.
- (iv) Alternate III (Oct 2014) of 52.219-9.
- (18) 52.219-13, Notice of Set-Aside of Orders (Nov 2011) (15 U.S.C. 644(r)).
- (19) 52.219-14, Limitations on Subcontracting (Nov 2011) (15 U.S.C. 637(a)(14)).
- (20) 52.219-16, Liquidated Damages—Subcontracting Plan (Jan 1999) (15 U.S.C. 637(d)(4)(F)(i)).
- (21) 52.219-27, Notice of Service-Disabled Veteran-Owned Small Business Set-Aside (Nov 2011) (15 U.S.C. 657f).
- (22) 52.219-28, Post Award Small Business Program Rerepresentation (Jul 2013) (15 U.S.C. 632(a)(2)).
- (23) 52.219-29, Notice of Set-Aside for Economically Disadvantaged Women-Owned Small Business (EDWOSB) Concerns (Jul 2013) (15 U.S.C. 637(m)).
- (24) 52.219-30, Notice of Set-Aside for Women-Owned Small Business (WOSB) Concerns Eligible Under the WOSB Program (Jul 2013) (15 U.S.C. 637(m)).
- (25) 52.222-3, Convict Labor (June 2003) (E.O. 11755).
- (26) 52.222-19, Child Labor—Cooperation with Authorities and Remedies (Jan 2014) (E.O. 13126).
- (27) 52.222-21, Prohibition of Segregated Facilities (Apr 2015).
- (28) 52.222-26, Equal Opportunity (Apr 2015) (E.O. 11246).
- (29) 52.222-35, Equal Opportunity for Veterans (Jul 2014) (38 U.S.C. 4212).

- (30) 52.222-36, Equal Opportunity for Workers with Disabilities (Jul 2014) (29 U.S.C. 793).
- (31) 52.222-37, Employment Reports on Veterans (Jul 2014) (38 U.S.C. 4212).
- (32) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (Dec 2010) (E.O. 13496).
- (33) (i) 52.222-50, Combating Trafficking in Persons (Mar 2015) (22 U.S.C. chapter 78 and E.O. 13627).
- (ii) Alternate I (Mar 2015) of 52.222-50, (22 U.S.C. chapter 78 and E.O. 13627).
- (34) 52.222-54, Employment Eligibility Verification (Aug 2013). (Executive Order 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial items as prescribed in 22.1803.)
- (35) (i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (May 2008) (42 U.S.C. 6962(c)(3)(A)(ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- (ii) Alternate I (May 2008) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- (36) (i) 52.223-13, Acquisition of EPEAT® -Registered Imaging Equipment (Jun 2014) (E.O.s 13423 and 13514)
- (ii) Alternate I (Jun 2014) of 52.223-13.
- (37) (i) 52.223-14, Acquisition of EPEAT® -Registered Television (Jun 2014) (E.O.s 13423 and 13514).
- (ii) Alternate I (Jun 2014) of 52.223-14.
- (38) 52.223-15, Energy Efficiency in Energy-Consuming Products (Dec 2007) (42 U.S.C. 8259b).
- (39) (i) 52.223-16, Acquisition of EPEAT® -Registered Personal Computer Products (Jun 2014) (E.O.s 13423 and 13514).
- (ii) Alternate I (Jun 2014) of 52.223-16.
- (40) 52.223-18, Encouraging Contractor Policies to Ban Text Messaging while Driving (Aug 2011) (E.O. 13513).
- (41) 52.225-1, Buy American--Supplies (May 2014) (41 U.S.C. chapter 83).
- (42) (i) 52.225-3, Buy American--Free Trade Agreements--Israeli Trade Act (May 2014) (41 U.S.C. chapter 83, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, 19 U.S.C. 4001 note, Pub. L. 103-182, 108-77, 108-78, 108-286, 108-302, 109-53, 109-169, 109-283, 110-138, 112-41, 112-42, and 112-43).

(ii) Alternate I (May 2014) of 52.225-3.

(iii) Alternate II (May 2014) of 52.225-3.

(iv) Alternate III (May 2014) of 52.225-3.

(43) 52.225-5, Trade Agreements (Nov 2013) (19 U.S.C. 2501, *et seq.*, 19 U.S.C. 3301 note).

(44) 52.225-13, Restrictions on Certain Foreign Purchases (Jun 2008) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

(45) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Jul 2013) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).

(46) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (Nov 2007) (42 U.S.C. 5150).

(47) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) (42 U.S.C. 5150).

(48) 52.232-29, Terms for Financing of Purchases of Commercial Items (Feb 2002) (41 U.S.C. 4505), 10 U.S.C. 2307(f)).

(49) 52.232-30, Installment Payments for Commercial Items (Oct 1995) (41 U.S.C. 4505, 10 U.S.C. 2307(f)).

(50) 52.232-33, Payment by Electronic Funds Transfer— System for Award Management (Jul 2013) (31 U.S.C. 3332).

(51) 52.232-34, Payment by Electronic Funds Transfer—Other Than System for Award Management (Jul 2013) (31 U.S.C. 3332).

(52) 52.232-36, Payment by Third Party (May 2014) (31 U.S.C. 3332).

(53) 52.239-1, Privacy or Security Safeguards (Aug 1996) (5 U.S.C. 552a).

(54) (i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631).

(ii) Alternate I (Apr 2003) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items:

[Contracting Officer check as appropriate.]

(1) 52.222-17, Nondisplacement of Qualified Workers (May 2014) (E.O. 13495)

(2) 52.222-41, Service Contract Labor Standards (May 2014) (41 U.S.C. chapter 67).

___ (3) 52.222-42, Statement of Equivalent Rates for Federal Hires (May 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

___ (4) 52.222-43, Fair Labor Standards Act and Service Contract Labor Standards -- Price Adjustment (Multiple Year and Option Contracts) (May 2014) (29 U.S.C.206 and 41 U.S.C. chapter 67).

___ (5) 52.222-44, Fair Labor Standards Act and Service Contract Labor Standards -- Price Adjustment (May 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

___ (6) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (May 2014) (41 U.S.C. chapter 67).

___ (7) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Requirements (May 2014) (41 U.S.C. chapter 67).

___ (8) 52.222-55, Minimum Wages Under Executive Order 13658 (Dec 2014) (E.O. 13658).

___ (9) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (May 2014) (42 U.S.C. 1792).

___ (10) 52.237-11, Accepting and Dispensing of \$1 Coin (Sep 2008) (31 U.S.C. 5112(p)(1)).

(d) *Comptroller General Examination of Record* The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records -- Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)

(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c) and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (e)(1) in a

subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—

- (i) 52.203-13, Contractor Code of Business Ethics and Conduct (Apr 2010) (41 U.S.C. 3509).
- (ii) 52.219-8, Utilization of Small Business Concerns (Oct 2014) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$650,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (iii) 52.222-17, Nondisplacement of Qualified Workers (May 2014) (E.O. 13495). Flow down required in accordance with paragraph (1) of FAR clause 52.222-17.
- (iv) 52.222-21, Prohibition of Segregated Facilities (Apr 2015).
- (v) 52.222-26, Equal Opportunity (Apr 2015) (E.O. 11246).
- (vi) 52.222-35, Equal Opportunity for Veterans (Jul 2014) (38 U.S.C. 4212).
- (vii) 52.222-36, Equal Opportunity for Workers with Disabilities (Jul 2014) (29 U.S.C. 793).
- (viii) 52.222-37, Employment Reports on Veterans (Jul 2014) (38 U.S.C. 4212).
- (ix) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (Dec 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.
- (x) 52.222-41, Service Contract Labor Standards (May 2014), (41 U.S.C. chapter 67).
- (xi) ____ (A) 52.222-50, Combating Trafficking in Persons (Mar 2015) (22 U.S.C. chapter 78 and E.O. 13627).
 - ____ (B) Alternate I (Mar 2015) of 52.222-50 (22 U.S.C. chapter 78 E.O. 13627).
- (xii) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (May 2014) (41 U.S.C. chapter 67.)
- (xiii) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Requirements (May 2014) (41 U.S.C. chapter 67)
- (xiv) 52.222-54, Employment Eligibility Verification (Aug 2013).
- (xv) 52.222-55, Minimum Wages Under Executive Order 13658 (Dec 2014) (E.O. 13658).
- (xvi) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Jul 2013) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).

(xvii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (May 2014) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xviii) 52.247-64, Preference for Privately-Owned U.S. Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of Clause)

52.232-99 PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS (AUG 2012) (DEVIATION)

This clause implements the temporary policy provided by OMB Policy Memorandum M-12-16, Providing Prompt Payment to Small Business Subcontractors, dated July 11, 2012.

(a) Upon receipt of accelerated payments from the Government, the contractor is required to make accelerated payments to small business subcontractors to the maximum extent practicable after receipt of a proper invoice and all proper documentation from the small business subcontractor.

(b) Include the substance of this clause, including this paragraph (b), in all subcontracts with small business concerns.

(c) The acceleration of payments under this clause does not provide any new rights under the Prompt Payment Act.

(End of clause)

A. Federal Acquisition Regulation (FAR) clauses: (48CFR CHAPTER 1) CLAUSES <https://www.acquisition.gov/far/>

The following FAR clauses are included by reference:

52.204-7	System for Award Management (JUL 2013)
52.212-4	Contract Terms and Conditions (Commercial Items. (MAY 2015)
52.246-2	Inspection of Supplies-Fixed Price (AUG 1996)
52.247-34	F.O.B. Destination (NOV 1991)

B. NASA FEDERAL ACQUISITION REGULATION SUPPLEMENT (48CFR CHAPTER 18) CLAUSES (<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>)

The following NFS clauses are included by reference:

1852.215-84 Ombudsman (Oct 2003) Fill In: b. [Kenneth R. Human, Associate Director, Mail Code AA00, John C. Stennis Space Center, MS 39529-6000, E-Mail (ken.r.human@nasa.gov), Phone 228-688-1128, or Fax (228) 688-3240]

1852.223-72 Safety and Health (Short Form) (Apr 2002)
1852.225-70 Export Licenses (Feb 2000) Fill In: b. [NASA John C. Stennis Space Center]
1852.233-70 Protest to NASA (Oct 2002)

1852.237-73 Release of Sensitive Information.

As prescribed in 1837.203-72(b), insert the following clause:

RELEASE OF SENSITIVE INFORMATION

(JUNE 2005) (a) As used in this clause, "sensitive information" refers to information, not currently in the public domain, that the Contractor has developed at private expense, that may embody trade secrets or commercial or financial information, and that may be sensitive or privileged.

(b) In accomplishing management activities and administrative functions, NASA relies heavily on the support of various service providers. To support NASA activities and functions, these service providers, as well as their subcontractors and their individual employees, may need access to sensitive information submitted by the Contractor under this contract. By submitting this proposal or performing this contract, the Contractor agrees that NASA may release to its service providers, their subcontractors, and their individual employees, sensitive information submitted during the course of this procurement, subject to the enumerated protections mandated by the clause at 1852.237-72, Access to Sensitive Information.

(c)(1) The Contractor shall identify any sensitive information submitted in support of this proposal or in performing this contract. For purposes of identifying sensitive information, the Contractor may, in addition to any other notice or legend otherwise required, use a notice similar to the following:

Mark the title page with the following legend:

This proposal or document includes sensitive information that NASA shall not disclose outside the Agency and its service providers that support management activities and administrative functions. To gain access to this sensitive information, a service provider's contract must contain the clause at NFS 1852.237-72, Access to Sensitive Information. Consistent with this clause, the service provider shall not duplicate, use, or disclose the information in whole or in part for any purpose other than to perform the services specified in its contract. This restriction does not limit the Government's right to use this information if it is obtained from another source without restriction. The information subject to this restriction is contained in pages [insert page numbers or other identification of pages].

Mark each page of sensitive information the Contractor wishes to restrict with the following legend:

Use or disclosure of sensitive information contained on this page is subject to the restriction on the title page of this proposal or document.

(2) The Contracting Officer shall evaluate the facts supporting any claim that particular information is "sensitive." This evaluation shall consider the time and resources necessary to protect the information in accordance with the detailed safeguards mandated by the clause at 1852.237-72, Access to Sensitive Information. However, unless the Contracting Officer decides, with the advice of Center counsel, that reasonable grounds exist to challenge the Contractor's claim that particular information is sensitive, NASA and its service providers and their employees shall comply with all of the safeguards contained in paragraph (d) of this clause.

(d) To receive access to sensitive information needed to assist NASA in accomplishing management activities and administrative functions, the service provider must be operating under a contract that contains the clause at 1852.237-72, Access to Sensitive Information. This clause obligates the service provider to do the following:

(1) Comply with all specified procedures and obligations, including the

Organizational Conflicts of Interest Avoidance Plan, which the contract has incorporated as a compliance document.

(2) Utilize any sensitive information coming into its possession only for the purpose of performing the services specified in its contract.

(3) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.

(4) Allow access to sensitive information only to those employees that need it to perform services under its contract.

(5) Preclude access and disclosure of sensitive information to persons and entities outside of the service provider's organization.

(6) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in its contract and to safeguard it from unauthorized use and disclosure.

(7) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.

(8) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.

(e) When the service provider will have primary responsibility for operating an information technology system for NASA that contains sensitive information, the service provider's contract shall include the clause at 1852.204-76, Security Requirements for Unclassified Information Technology Resources. The Security Requirements clause requires the service provider to implement an Information Technology Security Plan to protect information processed, stored, or transmitted from unauthorized access, alteration, disclosure, or use. Service provider personnel requiring privileged access or limited privileged access to these information technology systems are subject to screening using the standard National Agency Check (NAC) forms appropriate to the level of risk for adverse impact to NASA missions. The Contracting Officer may allow the service provider to conduct its own screening, provided the service provider employs substantially equivalent screening procedures.

(f) This clause does not affect NASA's responsibilities under the Freedom of Information Act.

(g) The Contractor shall insert this clause, including this paragraph (g), suitably modified to reflect the relationship of the parties, in all subcontracts that may require the furnishing of sensitive information.

(End of clause)

The following NFS clause is included in full text:

1852.216-78 FIRM FIXED PRICE (DEC 1988)

The total firm-fixed price of this contract is \$ _____.

(End of Clause)

5. POINTS OF CONTACT

NASA SSC Contract Specialist
George Piccolo / DA10
Phone: 228-688-1879
E-mail: george.r.piccolo@nasa.gov

NASA SSC
B.T. Wigley /
Phone: 228-688-3086
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6. LIST OF ATTACHMENT(S)

The following document(s) are attached hereto and made a part of this award:

<u>Attachment No.</u>	<u>Description/Title</u>	<u>Date</u>	<u>Pages</u>
*1	Solicitation Provisions Representations and Certifications	MAR 2015	1
2	Statement of Work		2
3	B2 Video System: Electrical Interface Connectors Specifications and Requirements		22

SOLICITATION PROVISIONS*A. FEDERAL ACQUISITION REGULATION (48 CFR Chapter 1)**

(<https://www.acquisition.gov/far/>):

The following FAR provision is included by reference:

52.212-1 Instructions to Offerors – Commercial Items (Apr 2014)

The following FAR provisions are included in full text:

52.212-2 EVALUATION--COMMERCIAL ITEMS (Oct 2014)

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factor(s) shall be used to evaluate offer: *(i) price and delivery.*

(b) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

(End of Provision)

52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es): Federal Acquisition Regulation (FAR) clauses:

<https://www.acquisition.gov/far/>; NASA FAR Supplement (NFS) clauses:

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

(End of Provision)

B. NASA FEDERAL ACQUISITION REGULATION SUPPLEMENT (48CFR CHAPTER 18) PROVISIONS (<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>):

The following NFS provision is included by reference:

1852.233-70 Protest to NASA (Oct 2002)

Statement of Work

B2 Test Stand - Video System Connectors

The NASA, John C. Stennis Space Center (SSC) has recently decided to go forward with the refurbishment of the B2 Test Stand. The refurbished test facility will provide propulsion test capability which will enable the Space Launch System (SLS) Program's Core Stage Green Run test series. This test series will be used to validate the performance of the SLS Core Stage before launch from the Kennedy Space Center in Florida.

Part of the refurbishment will be the re-design and installation of a new video system. As part of this video system, electrical interface connectors will be required. The work to be performed under this SOW consists of providing electrical interface connectors that will be used to connect between external video control enclosures and the cameras protective housing and the pan and tilt unit. These connectors will be used on all video inter-connect applications.

The B2 video system connectors shall consist of various connectors with different shell sizes and contact count with some including coax cable pins and sockets. The specification page calls out more information about each connector and the pins / sockets that each require. This equipment will be installed in, on and around the B2 test complex.

The effort includes procurement of multiple types of electrical connectors, contacts and connector cabling back-shell hardware. The connectors will be in compliance with the attached specifications.

Spec. Page	Amphenol Part Number	Type	Location
1	TVP00RW19-ADP (LC)	Chassis Mount (M)	LS Housing
2	TV06RW19-ADS (LC)	Cable End (F)	LS Drag-On
3	TVP00RW19-28P	Chassis Mount (M)	TM Housing
4	TV06RW19-28S	Cable End (F)	TM Drag-On
5	TVP00RW25-46S (LC)	Chassis Mount (F)	LS VCB
6	TV06W25-46P (LC)	Cable End (M)	LS Drag-On
7	TVP00RW25-26P (LC)	Chassis Mount (M)	HS Housing
8	TV06W25-26S (LC)	Cable End (F)	HS Drag-On
9	TVP00RW25-26S (LC)	Chassis Mount (F)	HS VCB
10	TV06W25-26P (LC)	Cable End (M)	HS Drag-On
11	PT02E-14-12S	Chassis Mount (F)	P&T Housing
12	PT06SE-14-12P (SR)	Cable End (M)	P&T Drag-On
13	PT02E-18-11S	Chassis Mount (F)	Stage Power
14	PT06SE-18-11P (SR)	Cable End (M)	Stage Power
15	PT02E-14-5S	Chassis Mount (F)	D-SLR VCB
16	PT06SE-14-5P (SR)	Cable End (M)	D-SLR Drag-On
17	PT02E-14-5P	Chassis Mount (M)	D-SLR Housing
18	PT06SE-14-5S (SR)	Cable End (F)	D-SLR Drag-On

Spec. Page	Model Number	Type
19	M39029/56-353	#20 Male Contact
19	M39029/56-351	#20 Female Contact
19	M39029/56-352	#16 Female Contact
19	M39029/56-364	#15 Male Contact
20	M39029/56-365	#12 Male Contact
20	M39029/56-355	#12 Female Contact
20	21-033592-031	#8 Male Coax Contact
20	21-033591-031	#8 Female Coax Contact
21	BN001SRL18104HW	Connector Back-shell
21	BN002SRL18104HW	Connector Back-shell
22	BN001SRL24104HW	Connector Back-shell

The effort to be performed is specifically delineated below:

1. Equipment shall be provided that meets NASA's requirements identified in the attached specification.

NASA SSC shall issue a Fixed Cost Contract for the procurement of Electrical Connectors required to support the B2 Test Stand.

2. The vendor shall identify the Lead time for delivery of Electrical Connectors.
3. The vendor shall provide documentation per the included specifications.

The specifications include:

B2 Video System: Electrical Interface Connector Specifications

B2 Video System: Electrical Interface Connectors Specifications and Requirements

The following specifications describe the electrical and mechanical requirements for the video system's electrical interface connectors:

TVP00RW19-ADP (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: DD – Receptacle, Wall Mount

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray,
EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 19-AD

Shell Size: 19 Insert Arrangement: AD

16 each #20 contacts and 1 each #8 coax contact

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Field Left Blank to indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) – Less Contacts

TV06RW19-ADS (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 05 -- Straight Plug

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@1.0Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 19-AD

Shell Size: 19 insert Arrangement: AD

1.6 each #20 contacts and 1 each #8 coax contact

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicates normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) -- Less Contacts

TVP00RW19-28P (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 00 -- Receptacle, Wall Mount

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 19-28

Shell Size: 19 Insert Arrangement: 28

26 each #20 contacts and 2 each #16 coax contact

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) -- Less Contacts

TV06RW19-28S (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 06 -- Straight Plug

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 19-28

Shell Size: 19 Insert Arrangement: 28

26 each #20 contacts and 2 each #15 coax contact

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) -- Less Contacts

TVP00RW25-46S (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 00 – Receptacle, Wall Mount

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 25-46

Shell Size: 25 Insert Arrangement: 46

40 each #20 contacts and 4 each #16 contacts and 2 each #8 coax contacts

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) – Less Contacts

TV06RW25-46P (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 06 -- Straight Plug

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@1.0Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 25-46

Shell Size: 25 Insert Arrangement: 46

40 each #20 contacts and 4 each #16 contacts and 2 each #8 coax contacts

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) — Less Contacts

TVP00RW25-26P (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 00 -- Receptacle, Wall Mount

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 25-26

Shell Size: 25 Insert Arrangement: 26

16 each #20 contacts and 5 each #12 contacts and 4 each #8 coax contacts

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) -- Less Contacts

TV06RW25-26P (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: C6 – Straight Plug

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 25-26

Shell Size: 25 Insert Arrangement: 26

16 each #20 contacts and 5 each #12 contacts and 4 each #8 coax contacts

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) – Less Contacts

TVP00RW25-26S (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: D0 – Receptacle, Wall Mount

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangement:

Designation: 25-26

Shell Size: 25 Insert Arrangement: 26

16 each #20 contacts and 5 each #12 contacts and 4 each #8 coax contacts

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) – Less Contacts

TV06RW25-26S (LC)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 05 -- Straight Plug

Service Class:

Designation: RW (Metal)

Corrosion resistant olive drab cadmium plate aluminum, 500 hour salt spray, EMI Shielding -50 db@10Ghz specification min., 175°C

Shell Size and Insert Arrangements:

Designation: 25-26

Shell Size: 25 Insert Arrangement: 26

16 each #20 contacts and 5 each #12 contacts and 4 each #8 coax contacts

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate clocking

Special Variation:

Designation: (LC)

This connector is supplied without contacts. (LC) -- Less Contacts

PT02E-14-12S

Connector Type:

Type: PT

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 02 – Receptacle, Box Mount

Service Class:

Designation: E

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.

Factory installed solder contacts and environmental resisting open wire seal with grommet and nut.

Shell Size and Insert Arrangement:

Designation: 14-12

Shell Size: 14 Insert Arrangement: 12

8 each #20 contacts and 4 each #16 contacts (included)

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: None

PT06SE-14-12P (SR)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 06 -- Straight Plug

Service Class:

Designation: SE

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.
Rear insertable / front release crimp contacts. Environmental resistant.

Shell Size and Insert Arrangement:

Designation: 14-12

Shell Size: 14 Insert Arrangement: 12

8 each #20 contacts and 4 each #16 contacts (included)

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

indicate normal or no alternate insert clocking

Special Variation:

Designation: (SR)

This connector is supplied with (SR) - Strain Relief

PT02E-18-11S

Connector Type:

Type: PT

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 02 – Receptacle, Box Mount

Service Class:

Designation: E

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.

Factory installed solder contacts and environmental resisting open wire seal with grommet and nut.

Shell Size and Insert Arrangement:

Designation: 18-11

Shell Size: 18 Insert Arrangement: 11

11 each #16 contacts (Included)

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: None

PT06SE-18-11P (SR)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 06 -- Straight Plug

Service Class:

Designation: SE

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.
Rear insertable / front release crimp contacts. Environmental resistant.

Shell Size and Insert Arrangement:

Designation: 18-11.

Shell Size: 18 Insert Arrangement: 11

11 each #16 contacts (included)

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: (SR)

This connector is supplied with (SR) - Strain Relief

PT02E-14-05S

Connector Type:

Type: PT

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 02 – Receptacle, Box Mount

Service Class:

Designation: E

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.

Factory installed solder contacts and environmental resisting open wire seal with grommet and nut.

Shell Size and Insert Arrangement:

Designation: 14-05

Shell Size: 14 **Insert Arrangement:** 5

5 each #16 contacts (Included)

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: None

PT06SE-14-05P (SR)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 05 – Straight Plug

Service Class:

Designation: SE

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.
Rear insertable / front release crimp contacts. Environmental resistant.

Shell Size and Insert Arrangement:

Designation: 14-05

Shell Size: 14 Insert Arrangement: 5

5 each #16 contacts (included)

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: (SR)

This connector is supplied with (SR) - Strain Relief

PT02E-14-05P

Connector Type:

Type: PT

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: Q2 – Receptacle, Box Mount

Service Class:

Designation: E

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.

Factory installed solder contacts and environmental resisting open wire seal with grommet and nut.

Shell Size and Insert Arrangement:

Designation: 14-05

Shell Size: 14 Insert Arrangement: 5

5 each #16 contacts (included)

Contact Type:

Designation: P

Setup for (Male) or Pin type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: None

PT06SE-14-05S (SR)

Connector Type:

Type: TVP

Grade: Commercial

Material: Aluminum

Shell Style:

Designation: 06 – Straight Plug

Service Class:

Designation: SE

Corrosion resistant olive drab cadmium plate aluminum, 3 point bayonet lock.
Rear insertable / front release crimp contacts. Environmental resistant.

Shell Size and Insert Arrangement:

Designation: 14-05

Shell Size: 14 Insert Arrangement: 5

5 each #16 contacts (Included)

Contact Type:

Designation: S

Setup for (Female) or Socket type contacts

Alternate Position (Clocking):

Designation: None

Indicate normal or no alternate insert clocking

Special Variation:

Designation: (SR)

This connector is supplied with (SR) - Strain Relief

B2 Video System: Electrical Interface Connectors Contact Ratings and Part Numbers

The following specifications describe the electrical and mechanical requirements for the electrical contacts that will be used in the video system's electrical interface connectors:

M39029/58-363

Contact Info:

Size: #20 Male (Pin)

Grade: Military

Material: Standard 500 Cycle finish – gold plating over suitable underplate in accordance with SAE AS39029

M39029/56-351

Contact Info:

Size: #20 Female (Socket)

Grade: Military

Material: Standard 500 Cycle finish -- gold plating over suitable underplate in accordance with SAE AS39029

M39029/58-364

Contact Info:

Size: #16 Male (Pin)

Grade: Military

Material: Standard 500 Cycle finish – gold plating over suitable underplate in accordance with SAE AS39029

M39029/56-352

Contact Info:

Size: #16 Female (Socket)

Grade: Military

Material: Standard 500 Cycle finish – gold plating over suitable underplate in accordance with SAE AS39029

M39029/58-365

Contact Info:

Size: #12 Male (Pin)

Grade: Military

Material: Standard 500 Cycle finish -- gold plating over suitable underplate in accordance with SAE AS39029

M39029/56-353

Contact Info:

Size: #12 Female (Socket)

Grade: Military

Material: Standard 500 Cycle finish -- gold plating over suitable underplate in accordance with SAE AS39029

21-033592-031

Contact Info:

Size: #8 Male Matched-High Frequency Coaxial Contact

Grade: Military

Frequency Range: 0 – 3 GHz

Material: Gold Plated with 0.000050 min. of gold over nickel. 75 ohm nominal impedance

21-033591-031

Contact Info:

Size: #8 Female Matched High Frequency Coaxial Contact

Grade: Military

Frequency Range: 0 – 3 GHz

Material: Gold Plated with 0.000050 min. of gold over nickel. 75 ohm nominal impedance

B2 Video System: Electrical Interface Connectors Non-Environmental Backshells w/ Strain Relief

The following specifications describe the mechanical requirements for the strain relief or backshells that will be used on the video system's electrical interface connectors:

BN001SRL18109HW

Backshell Type:

Type: BN001

Angle Profile: Straight – (S)

Coupling: Rotatable – (R)

Connector Group: (L) - MIL-DTL-38999 Series III and IV

Shell Size: - (18) = Size 19 in a L connector group

Entry Size: (10) - .780 Length and 1.332 wide for cable size between 0.350" and 0.625"

Total Backshell Length: (4) - $4 \times 0.5" = 2.0"$

Strain Relief Style: (H) – Clamp Heavy Duty

Material: (W) – Cadmium, Olive Drab plated aluminium

BN002SRL18104HW

Backshell Type:

Type: BN002

Angle Profile: Straight – (S)

Coupling: Rotatable – (R)

Connector Group: (L) - MIL-DTL-38999 Series III and IV

Shell Size: - (18) = Size 19 in a L connector group

Entry Size: (10) - .780 Length and 1.332 wide for cable size between 0.350" and 0.625"

Total Backshell Length: (4) - $4 \times 0.5" = 2.0"$

Strain Relief Style: (H) – Clamp Heavy Duty

Material: (W) – Cadmium, Olive Drab plated aluminium

BN001SRL24109HW

Backshell Type:

Type: BN001

Angle Profile: Straight -- (S)

Coupling: Rotatable -- (R)

Connector Group: (L) - MIL-DTL-38999 Series III and IV

Shell Size: - (24) = Size 25 in a L connector group

Entry Size: (10) - .730 Length and 1.332 wide for cable size between 0.350" and 0.625"

Total Backshell Length: (4) - $4 \times 0.5" = 2.0"$

Strain Relief Style: (H) -- Clamp Heavy Duty

Material: (W) -- Cadmium, Olive Drab plated aluminium