

PAGE UTILITY ENTERPRISES
INVITATION TO BID

FROM:

PAGE UTILITY ENTERPRISES
BOX 1955
PAGE, AZ 86040
PHONE: (928) 645-2419

BID NUMBER: 261

DATE: 7/14/2026

THIS IS NOT AN ORDER

TO:

YOU ARE INVITED TO BID ON THE
FOLLOWING ITEMS SUBJECT TO THE
TERMS & CONDITIONS SET FORTH ON
THE FACE HEREOF.

TERMS: NET 30 DAYS

DELIVERY POINT: 640 Haul Rd., Page, AZ 86040

BIDS WILL BE OPENED ON July 29th, 2026 AT 3:00 P.M. AT PAGE UTILITY ENTERPRISES, LOCATED
AT 640 HAUL ROAD.

FOR ITEM DESCRIPTION SEE FOLLOWING PAGES

NOTES:

1. PRICES MUST BE F.O.B. DESTINATION & INCLUDE ALL APPLICABLE TAXES.
2. ANY EXCEPTIONS TO THE SPECIFICATIONS MUST BE NOTED ON BID FORM.
3. PROVIDE DETAILS OF WARRANTY.
4. MARK ENVELOPE WITH "BID #258 - PRIMARY DISTRIBUTION CONDUCTOR"
5. INDICATE TIME OF DELIVERY.

FILL OUT AND RETURN ONE COPY OF THIS FORM.

BIDDERS CERTIFICATION:

It is hereby affirmed that the following bid has been made in accordance with the terms
and conditions set forth on the face hereof and that the bidder will accept any awards
made to him as a result of this quotation.

FIRM NAME & ADDRESS OF BIDDER

SIGNATURE:

Title: _____
Phone # _____

PAGE UTILITY ENTERPRISES
TERMS & CONDITIONS

1. Mark the envelope containing the bid per the instructions given on the "INVITATION TO BID". Any bids that are inadvertently opened because this statement was not clearly marked on the envelope will not be considered in the bidding process.
2. Fill out the accompanying bid sheet. Bids should be given in the units specified (feet, pounds, each, etc.). Any items not bid should be marked out. If the bidder uses any other form than that sent by Page Utility Enterprises, the items must be clearly described and indicated by Item Number in numerical sequence, or they will not be considered.
3. Inspection of delivery will be made at the delivery point, unless otherwise specified.
4. The purchasing agent may grant additional time for delivery when the buyer is at fault or if he is satisfied the delivery is beyond the control of the vendor. Such grant must be in writing and made part of the order.
5. Rejected material will be returned to the vendor at the vendor's risk and expense.
6. MATERIAL MUST BE PROPERLY PACKAGED. DAMAGED MATERIAL WILL NOT BE ACCEPTED.
7. It is agreed that goods delivered shall comply with all Federal, State or local laws relative thereto, and that the vendor shall defend actions or claims brought and save harmless the buyer from loss, cost or damage by reason of actual alleged infringements of latter's patent.
8. Bidder shall insert unit price and extension opposite each item.
9. Trade discounts will be a factor in determining the successful bidder.
10. A bidder offering foreign made merchandise must so indicate in his bid.
11. All prices MUST be F.O.B. DELIVERY POINT. Tax & freight charges should be included in the bid price for each item.
12. The award of the bids will be decided by the purchasing agent.
13. Where the unit price and extension price are at variance, the unit price will prevail.
14. The buyer reserves the right to reject any or all bids, to waive an informality when in the opinion of the purchasing agent it is to the best interest of the buyer to do so.
15. In case of default of the contractor, the buyer may procure the articles or any excess cost or damages occasioned thereby.
16. Samples must be furnished where required.
17. In all specifications the words "equal or equivalent" are understood whether stated or not after each article giving manufacturer's name or catalog reference or on any patented article. Where brand names or manufacturer's names are used in these documents, they are intended to establish a standard of quality of materials,

equipment function, and/or process. There is no intent to limit competitive bidding.
The decision of Page Utility Enterprises as to whether an alternate or substitution is in fact "equal" shall be final.

**PAGE UTILITY ENTERPRISES
UNDERGROUND CABLE
PRIMARY DISTRIBUTION SPECIFICATION**

1.0 SCOPE

- 1.1 Page Utility Enterprises (PUE) is requesting bids for the primary distribution conductors that are estimated to be installed throughout the system for fiscal year 2026-2027.
- 1.2 The conductors for this bid will be 1/C Ethylene Propylene Rubber (EPR) insulated, polyethylene jacketed power cable rated 15kV to 35kV.
- 1.3 Conductors requested for this bid are the following:
 - (a) **1/C 25kV Class B, stranded compressed concentric round, 1/0 aluminum 260 mill conductor with full copper neutral wires with an encapsulating polyethylene insulating jacket.**
 - (b) **1/C 25kV Class B, stranded compressed concentric round, 4/0 aluminum 260 mill conductor with 1/3 copper neutral wires with an encapsulating polyethylene insulating jacket.**
 - (c) **1/C 25kV Class B, stranded compressed concentric round, 500 MCM aluminum 260 mill conductor with 1/3 copper neutral wires with an encapsulating polyethylene insulating jacket.**
- 1.4 It is not known how much of each size conductor will actually be purchased for fiscal year 2026-2027.
- 1.5 In addition to the manufacturer's markings, indent printed on the conductors, for size, insulation, etc., all conductors must be marked with footage markers that will permanently show the length of the conductor used in a pull. Markings for length of conductor must be sequentially printed with a process that will **NOT** allow the markings to be rubbed off during the pulling in conduit process or other handling of the conductor.

2.0 GENERAL

- 2.1 The 25kV 1/0 aluminum conductor stated above in 1.3(a) will be purchased on standard reels with the normal manufactured wire

- lengths on each reel. Some specific reel lengths may be requested to fit field pull lengths when they are determined by actual field conditions.
- 2.2 Bids will be evaluated on the vendors ability to drop ship or keep in stock at PUE's facility enough reels of wire to cover the wire requirements for the jobs in progress so that shipping time between jobs is eliminated.
- 2.3 Wire reels will be invoiced and purchased in full reel quantities only as jobs in progress require and if a partial of the second reel is required, the second reel will be invoiced.
- 2.4 1/0 conductors MUST BE SPOOLED on conductor reels of eight (8) feet in diameter or less to accommodate payout equipment. (Most 1/0 reels are smaller than the 8' diameter.)
- 2.5 Cable reels must be clearly marked to show cable identification and wire length contained on each reel.
- 2.6 The 25kV 4/0 aluminum and the 25kV 500 MCM aluminum conductors will be purchased by the length of the wire pulls so as to eliminate the wire tail wastes.
- 2.7 25kV 4/0 and 500 MCM aluminum conductor reels must be clearly marked to show which reels contain the respective wire pull lengths, once they are determined.
- 2.8 When specific wire pull lengths are required for the 4/0 and 500 MCM aluminum conductors, reels can be of continuous length as long as the required pull length for each pull is identified on each reel.
- 2.9 Bids for this specification will show the unit price per linear foot, and adders that may be applied, and the delivery time for the first delivery of each wire size. Applicable sales tax will be added at the time each reel or groups of reels are invoiced. Prices will be shown as FOB Page, AZ as stated in the general bid specifications.
- 2.10 The underground primary distribution cable specifications listed for this bid are for Okonite conductor which have been previously installed throughout the system with satisfactory results. PUE will consider EPR cable that is equal or exceeds the Okonite specifications.

3.0 WARRANTY

All bidders shall submit a copy of the Manufacturer's Warranty.

4.0 SPECIFICATIONS FOR OKONITE CONDUCTOR

1/C ETHYLENE PROPYLENE RUBBER INSULATED,
POLYETHYLENE JACKET POWER CABLE
RATED 15 TO 35 KV

Scope: This specification covers single conductor shielded power cable insulated with an ozone and discharge resistant, flexible, rubber-like thermosetting dielectric.

The cable is suitable for both single phase primary underground residential distribution cable and three phase distribution having full neutral or less than full neutral respectively for installation in underground ducts, conduits and direct burial in wet locations.

- * The cable shall be rated 105NC for normal operation, 140NC for emergency overload operation and 250NC for short circuit conditions. Emergency overload operation may occur for periods up to 1500 hours cumulative during the lifetime of the cable.

Operating Experience: The medium voltage power cable manufacturer shall have a performance record demonstrating a previous production history with years of successful operating experience in utility and industrial power cable applications.

Basic Construction: 1/C Class B strand copper or aluminum conductor, triple tandem extruded semiconducting ethylene propylene rubber insulation shield followed by a concentric wrap of neutral wires with an encapsulating insulating or semiconducting jacket.

Industry Standards: Cable shall meet or exceed the latest editions of the following industry specifications:

ICEA S-68-516	AEIC CS-6
ASTM B-8, B-231	REA Bulletin 50-70 (U-1)

5-0 CONDUCTOR

5.1 Uncoated soft copper or aluminum wire, Class B, stranded compressed concentric round. Copper per ASTM B-8 or aluminum per ASTM B-231.

- 5.2 The center strand or solid conductor shall be stamped showing the following: Manufacturer, Plant Number, Year of Manufacture.
- 5.3 Conductors shall meet the electrical resistance requirements of ICEA S-68-516, Section 2.5.
- 5.4 As an alternate construction either the copper or aluminum conductor may be filled with a semiconducting compound to prevent possible water migration along the conductor during installation or operating service life. The surface of the conductor shall be clean and free of any strand filling compound. In the event a filling compound is used that is a different material than the strand shield, it shall not be in the outer interstices of the strand or in direct contact with the conductor shield.

6.0 CONDUCTOR SHIELD

- 6.1 Extruded layer of semiconducting EPR thermosetting compound with a volume resistivity not in excess of 10 ohm meters at 90NC shall be applied over the conductor. The compound shall have a minimum elongation after an air over test at 121NC for 168 hours of 100% and a brittleness temperature not warmer than -50NC.
- 6.2 The shield shall be clean stripping from the conductor and inseparably bonded to the overlying insulation.

- * 6.3 The thickness of the conductor shield shall be as shown in Table I.

TABLE I

Conductor Size AWG/MCM	Conductor Shield Thickness	
	Min. Point (mils)	Min. Average (mils)
8 - 4/0	12	15
250 - 500	16	20
501 - 1000	20	25

7.0 INSULATION

- 7.1 The insulation shall be ethylene propylene rubber (EPR), a red colored flexible thermosetting dielectric based on an ethylene propylene elastomer. It shall meet the electrical and physical characteristics shown in Appendix A. The ethylene content of the elastomer used in the insulation compound shall not exceed 72% by weight of ethylene nor shall the insulation compound contain any polyethylene, both features to limit the degree of susceptibility to treeing experienced by highly crystalline materials. The insulation shall be compounded by the cable manufacturer in its own facility using a closed system to insure maximum cleanliness. All ingredients will be mixed, screened through a 120 mesh screen pack and then treated with the accelerator or crosslinking agent to insure complete blending and uniformity of the final compound.
- 7.2 The minimum average insulation thickness shall be not less than Table II. The minimum thickness at any cross-section of the insulation shall be not less than 90% of the specified minimum average thickness.
- 7.3 The EPR insulation shall be triple-tandem extruded with the conductor and insulation shields to prevent intersurface contamination. The extrusion operation shall be performed by three separate in line extruder heads thereby permitting the measurement and accurate individual control of the wall thickness of each layer of compound as the cable is being manufactured.

TABLE II

Rated Voltage Phase to Phase kV	Conductor Size AWG/kcmil	Min. Avg. Insulation Thickness		5 min. ac Withstand		15 min. dc Withstand	
		mils		kV		kV	
		100%	133%	100%	133%	100%	133%
15	2 to 1000	175	220	35	44	70	80
25	1 to 1000	260	320	52	64	100	120
28	1 to 1000	280	345	56	69	105	125
35	1/0 to 1000	345	420	69	84	125	155

8.0 INSULATION SHIELD

8.1 The insulation shield shall be an extruded semiconducting EPR compound with a volume resistivity not in excess of 10 ohm-meters at 90NC when tested per AEIC No. CS-6.

8.2 The extruded shield shall be clean stripping and shall have a peel strength from the insulation between 6 and 18 lbs./0.5 inch width when tested per AEIC No. CS-6. This compound shall have a minimum elongation after an air oven test at 121NC for 168 hours of 100% and a brittleness temperature not warmer than -50NC.

* 8.3 The thickness of the extruded shield shall be in accordance with Table III.

8.4 The metallic shield indent on the insulation shield may have a depth no greater than the values listed in the Maximum Indent column of Table III.

TABLE III

Calculated Minimum Diameter Over Insulation (Inches)	For Cables With or Without an Overall Jacket		
	Insulation Shield Thickness (mils)		
	Minimum Point	Maximum Point	Maximum Point
0 - 1.000	30	70	15
1.001 - 1.500	40	85	15
1.501 - 2.000	55	100	20
2.001 & Larger	55	115	20

9.0 METALLIC SHIELDING

The metallic shield shall consist of a balanced helical wrap of bare copper wires. They shall be applied directly over the insulation shield with a lay of 6 to 10 times diameter over the wires.

The number and size of copper wires for the full or 1/3rd concentric neutral shall be in accordance with Table V.

10.0 OVERALL JACKET

* Unless specified otherwise, there shall be an overall black insulating jacket meeting the physical and electrical requirements in Appendix B. As an alternate this jacket may be furnished either

integrally colored as red, yellow, blue, or orange. A black jacket may also be furnished with either red or yellow stripes longitudinally applied and spaced 180N apart. A design option is available to furnish a semiconducting overall jacket meeting the physical and electrical requirements in Appendix C. The overall jacket shall substantially fill the spaces between the concentric neutral wires and shall be free stripping from the insulation shield and concentric neutral.

The jacket thickness shall be shown in the following table:

TABLE IV

Calculated Minimum Average Diameter Over Concentric Conductor - Inches	Jacket Thickness, Mils Over Concentric Conductor Minimum Average
0 - 1.500	50
Over 1.500	50

11.0 IDENTIFICATION

The following identifying legend shall be indent printed on the jacket repeated at two (2) foot intervals.

Insulating Jacket Construction

Manufacturer	Plt	(A)	(B)	(C)
EP Insul.	Shld.	(D)	kV	(E) % Insul. Level
(F) Mils	Conc. Neutral	PE Insul. Jkt	Year	

Semiconducting Jacket Construction

Manufacturer	Plt	(A)	1/C	(B)	(C)
EP Insul.	Shld.	(D)	kV	(E) % Insul. Level	
(F) Mils	Conc. Neutral	Semiconducting Jkt	Year		

- (A) Plant Number
- (B) Conductor Size - either AWG or kcmil
- (C) Cu or Al
- (D) Voltage
- (E) 100 or 133%
- (F) Insulation Thickness

Sequential footage numbers are printed in ink on the jacket.

12.0 PRODUCTION TEST

- 12.1 Conductors shall meet the electrical resistance requirements of ICEA-68-516, Section 2.5.
- 12.2 Insulation Resistance Test shall be performed in accordance with the requirements of ICEA S-68-516, Part 6.28. Each cable shall have an insulation resistance not less than that corresponding to the insulation resistance constant of at least 50,000 megohms - 1000 ft. at 15.6NC.
- 12.3 A high voltage test is performed in accordance with Part 6.27 of ICEA S-68-516 at the AC and DC test voltages given in Table II.
- 12.4 Shield resistance is measured and recorded from end to end on the completed cable.
- 12.5 Corona Test: Each reel of completed shielded power cable shall comply with the maximum partial discharge in picocoulombs specified in Table IV.

TABLE IV

Vt/Vg Ratio	<u>1.0</u>	<u>1.5</u>	<u>2.5</u>	<u>3.0</u>	<u>4.0</u>
AEIC CS-6 Rqnts (pC)	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>10</u>
Cable Voltage Ratings in kV	Test Voltages (Vt) in kV Corresponding to Vt/Vg Ratio				
15	8.5	13.0	21.5	26.0	35.0
25	14.5	21.5	36.0	43.5	*57.5
28	16.0	24.0	40.5	48.5	65.0
35	20.0	30.5	50.5	60.5	*81.0
*The ac test voltages shown in Table II shall not be exceeded.					

The partial discharge test shall be performed in accordance with the procedures of Section F of AEIC CS-6-87 and X-Y recording graph will be furnished showing the corona test results.

- 12.6 Water Block Test: A water penetration production test for filled strand cable construction is performed on each master

length of insulated conductor. The test procedure shall be in accordance with ICEA T-31-610.

13.0 INSULATION & JACKET PROPERTIES

The physical and electrical properties of the insulation and jacket shall meet the guaranteed values set forth in the attached appendices.

14.0 QUALITY ASSURANCE

The Medium Voltage Cable shall be manufactured and tested under the control of a Quality Assurance program which meets the requirements of Section 10CFR50, Appendix B, of the Federal Register as defined in ASNI N45.2.

The Quality Assurance program shall demonstrate compliance with the above-referenced criteria by having passed yearly Quality Audits conducted by outside independent organizations.

APPENDIX A
PHYSICAL AND ELECTRICAL CHARACTERISTICS
OF (EPR) DIELECTRIC

When samples from completed cable are tested in accordance with the ICEA specifications, the vulcanized insulation shall meet the following values:*

	ICEA	Guaranteed
A. Physical requirements Unaged		
* Tensile min. psi @ 23= $\pm$ 2NC	700	1200
Elongation % min.	250	250
* 200%, Modulus, psi min @ 23= $\pm$ 2N	NR	1000
100% Hot Modulus, psi @ 130NC	NR	200
B. Aging Requirements		
After Air Oven for 168 hrs @ 121NC		
Tensile, % of unaged, min.	75	90
Elongation % of unaged, min.	75	90
After Air Oven for 168 hrs @ 150NC	NR	
Tensile, % of unaged, min.		90
Elongation % of unaged, min.		85
C. Ozone Resistance		
After 24 hrs @ 0.025 to 0.030%	NR	NC
D. Dielectric Traits @ 15.6NC		
SIC @ 80V/mil max.	4	3
% of Power Factor @ 80V/mil max.	2	1
IR Constant (K) min.	20,000	50,000
E. Electrical Traits @ 90NC		
After 24 hrs water immersion @ 90NC	NR	
SIC, 80V/mil max.		3
% pf		1.5
Stability Factor		
(pf @ 80-40 V/mil) max.		0.2
F. Mechanical Water Absorption		
168 hrs @ 70NC, mg./sq. in, max.	NR	5
G. Accelerated Water Absorption		
EM60-75NC		
SIC after 24 hrs max.	4	4
Increase in SIC, % max.		
1 - 14 days	3.5	3.5

7 - 14 days	1.3	1.5
Stability Factor after 14 days max. Alternate to Stability Factor	1.0	1.0

1 - 14 days	0.5	0.5
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H. Degree of Cure		
Heat distortion, % max.		10
Hot Creep, % Elongation max.	50	50
set, % max.	5	5

*** NOTE: ICEA values are shown for reference only. Nevada Power requires compliance with the "Guaranteed" values displayed in the right hand column.**

APPENDIX B

PHYSICAL CHARACTERISTICS OF POLYETHYLENE INSULATING JACKET

When tested in accordance with the ICEA specification, the jacket shall meet the following values:

A.	Physical Requirements Unaged	
	Tensile min. psi	1400
	Elongation min. %	350
B.	Aging Requirements	
	After Air Oven for 48 hrs @ 100NC	
	Tensile, min. % of unaged	75
	Elongation, min. % of unaged	75
C.	Heat Distortion	
	Air Oven, 1 hr @ 90NC, % max.	25
D.	Absorption Coefficient, min.	320
E.	Environmental Cracking (ICEA 6.19)	NC
F.	ASTM Identification	
	Applicable Spec.	ASTM D1248 Type 1 Class C Category 4 or 5 Grade J-3 & E-5

PAGE UTILITY ENTERPRISES
BID #261
Primary Distribution Conductor
2026-2027

Item	Qty	Description	Amt/ft	Deliver Date
1.	N/A	Unit price for 1/C 25kV Class B, stranded compressed concentric round, 1/0 260 mill aluminum primary conductor with full copper neutral wires with an encapsulating polyethylene insulating jacket.		
2.	N/A	Unit price for 1/C 25kV Class B, stranded compressed concentric round, 4/0 260 mill aluminum primary conductor with 1/3 copper neutral wires with an encapsulating polyethylene insulating jacket.		
3.	N/A	Unit price for 1/C 25kV Class B, stranded compressed concentric round, 500 MCM 260 mill aluminum primary conductor with 1/3 copper neutral wires with an encapsulating polyethylene insulating jacket.		



Page Electric Utility

electric power service for the people . . . by the people



640 Haul Rd., * P.O. Box 1955 * Page, Arizona 86040
Fax: (928) 645-5322 Phone: (928) 6452419

DATE: July 14, 2026
TO: All Prospective Bidders
FROM: Vandine Doctor
RE: Methods of Sending Bids to Page Utility Enterprises

There are four (4) methods by which prospective bidders can get their bid packets to Page Utility Enterprises (PUE). We encourage bidders to be aware that in most instances, firms which advertise overnight delivery cannot actually provide that service to the City of Page because of the remote geographic location. PUE recommends that prospective bidders plan to send their bid packages several days in advance of the deadline date.

The four (4) available methods are as follows:

Regular U.S. Postal Service (no delivery to PUE Office)
U.S. Postal Service Express Mail (no delivery to PUE Office)
Federal Express (no delivery until 2:00 p.m.)
United Parcel Service (deliveries usually around 4:00 p.m.)

The address for Page Utility Enterprises is:

Page Utility Enterprises
640 Haul Rd.
P.O. Box 1955
Page, AZ 86040

Under the sealed bid process, FAX bids WILL NOT be accepted. It is the responsibility of the prospective bidder to get bid packages to PUE Offices by the designated deadline.

If you have any questions or need further information, please call our office at (928)645-2419.