

**EXPANSE**

# Drop Us a Line

## *New Mexico*

**Carlsbad, NM** 575 885 8658

## *North Dakota*

**Williston, ND** 701 774 1094

## *Oklahoma*

**Oklahoma City, OK** 405 546 7774

**Tulsa, OK** 918 893 3558

## *Texas*

**Andrews, TX** 432 523 3530

**Big Spring, TX** 432 268 8395

**Houston, TX** 832 399 0054

**Midland, TX** 432 580 7095

**Odessa, TX** 432 580 9000

**San Angelo, TX** 325 653 7546

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EXPANSE

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~ ELECTRICAL CO ~

EXPANSE  
~ POWER SERVICES ~

EXPANSE  
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# Welcome to Expanse

For more than 70 years, Expanse has provided customers with fast, reliable and market-leading electrical infrastructure and related services.

We are a company built upon a proud legacy full of innovation, exceptional service, strong relationships and deep roots within the communities we serve.

We are proud of our history and the companies that paved the path to create a unified Expanse aligned around a common vision that honors our legacy, expresses our potential and that drives us to provide the best services and products in the industry.

# *Powerful Partners*

*At Expanse, we partner with leading energy and industrial clients to provide purposeful and comprehensive turnkey solutions with an emphasis on efficiency and safety. Our 70+ years of market-leading electrical and automation expertise builds upon a legacy of technology and quality craftsmanship.*

*Our process-driven company delivers reliability through a special combination of local expertise and expanded scale. This enables us to support customers across geographical and operational spectrums.*

## **Electrical & Instrumentation Services**

Our licensed electricians provide installation, troubleshooting and repair services for electrical systems and industrial equipment, including motors, starters, relays and variable frequency drives.

## **Automation & Control Services**

We offer automation services that encompass several types of control systems used in industrial production, including supervisory control and data acquisition (SCADA) systems.

## **Electrical Distribution Services**

We provide comprehensive in-field energy management lifecycle services for electrical distribution systems. Our team of linemen efficiently installs and maintains systems of varied configuration, length and voltage, utilizing the highest quality equipment.

## **Substation & Transmission Services**

Expanse Power Services, a division of Expanse, offers turnkey & EPC projects, engineering & design, construction, and project & program management services for power systems up to 345kV. We focus on a full suite of services related to transmission, distribution and substation greenfield construction and brownfield expansions and upgrades throughout a system's entire lifecycle – from site preparation to energization, and beyond.

## **Field Services**

We offer a wide range of reliability-driven services to clients through our NERC compliance inspections, testing and commissioning, and maintenance planning to ensure the efficiency and security of both new and existing equipment in extra-high voltage (EHV), high voltage (HV), medium voltage (MV) and low voltage (LV) electrical systems.

## Communication Networking Services

Reliable communication networking is a keystone of a well-designed automation system. This is critical for improving reliability, optimum operation, intelligent control and protection of assets. Our networking communication and automation solutions enable secure remote access to your control devices. Whatever the size or complexity of your distribution network, we can implement a communication network configuration and protection system with precise control.

## Projects

We leverage our extensive industry knowledge and expertise to offer customers project scheduling, material management, short interval planning and subcontractor management services. Our experience includes work on Terminals, Pump Stations, Compressor Stations, Tank Farms and more.

# Building a Better Future

## *Our Vision*

*A vision statement can transform an organization. It provides a picture of what could be, and creates a road map for how to get there.*

## **Building a BETTER Company**

- Be the safest place to work in our industry
- Make financial decisions to provide long-term stability
- Have one set of defined and consistent processes that drive great results
- Provide a collaborative and fun work environment

## **Developing the BEST Craftsmen**

- Be the employer of choice in our industry
- Define career paths and provide training to promote from within
- Promote quality of work through mentoring and passing down knowledge

## **Delivering the BEST Value and Service to Customers**

- Be the electrical service provider of choice in our industry
- Achieve brand recognition in our regions and communities
- Define our value by being responsive and doing quality work in accordance with our processes, each and every time

## **Achieving a BETTER Size and Scope for Our Sustainability**

- Provide long-term stability through smart growth
- Always explore opportunities to enter new services or sectors of our industry
- Become one of the top 10 electrical service providers in the country

# *Our Core Values*

*Core values are beliefs held by all of the members of an organization resulting in a shared sense of direction and motivation. They form the inner guidance system from which we perform work and conduct ourselves.*

## **Safety**

We will work safely or not at all for those around us and who depend on us; working safely begins every day.

## **Craftsmanship**

We take pride in the quality of everything that we do, taking time to do it right the first time. We train our fellow employees.

## **Reliability**

We honor all of our commitments and are always ready and prepared to do our work.

## **Doing the Right Thing**

We treat each other and our customers fairly and with the utmost respect; we make the right choice every time, even when it's hard.

## **Care About Each Other**

We take care of each other because we are passionate about our people.

# *Our Core Behaviors*

*Core behaviors help to shape an organization's culture and set out clear definitions and behavioral examples for how best to approach daily work. Ultimately, behaviors serve as a tangible expression, or "energizing proof," of our culture in action.*

## **Pride in Working as a Team**

Actively supports the company through working together and with other branches to achieve goals and objectives.

## **Delivering High Quality Work**

Comes to work prepared to maintain high standards and professionalism despite pressing deadlines; corrects own errors; produces quality and compliant work every time.

## **Demonstrating Respect and Fairness**

Instills mutual trust and confidence; upholds high ethical standards; behaves in a fair and respectful manner toward others.

## **Accepting Responsibility**

Is accountable for own actions and decisions; accepts responsibility for mistakes; holds self and others accountable for safe, efficient and quality results.

## **Working Safely**

Understands, encourages and complies with safety policies and procedures; completes all required safety training; takes personal responsibility for safety of oneself and others.

Defining  
and  
embracing  
our vision,  
values and  
behaviors  
is the  
foundation  
for a  
positive  
culture.

## Weight Reference Guide

### COPPER WIRE

30-45 mil weatherproof copper	
size	lbs=ft
#6	86.7#/1000'
#4	135.2#/1000'
#2	218.3#/1000'
bare solid copper wire	
size	lbs=ft
#6	79.4#/1000'
#4	126.3#/1000'
#2	200.9#/1000'
bare stranded copper wire	
size	lbs=ft
#6	81.1#/1000'
#4	128.9#/1000'
#2	204.9#/1000'
#1/0	325.8#/1000'
#2/0	410.9#/1000'
#2/0	518.1#/1000'
#4/0	653.3#/1000'
250	771.9#/1000'
350	1081#/1000'
500	1544#/1000'
750	2316#/1000'
1000	3088#/1000'

### TFFN

size	lbs=ft
#18	10.57#/1000'
#16	12#/1000'

### THHN

size	lbs=ft
#14	16#/1000'
#12	24#/1000'
#10	38#/1000'
#8	62#/1000'
#6	95#/1000'
#4	152#/1000'
#2	234#/1000'
#1/0	371#/1000'
#2/0	461#/1000'
#3/0	574#/1000'
#4/0	717#/1000'
250	850#/1000'
350	1172#/1000'
500	1653#/1000'
750	
1000	

### MWC

#16	7.87#/1000'
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### ALUMINUM WIRE

ASCR	
size	lbs=ft
#6(6/1)	36#/1000'
#4(6/1)	57.4#/1000'
#4 (7/1)	67#/1000'
#2 (6/1)	91.2#/1000'
#2 (7/1)	107#/1000'
#1/0	145#/1000'
#2/0	183#/1000'
#4/0	291#/1000'
#336	365#/1000'
#477	517#/1000'

### NORMAL REEL SIZES

size	name	feet	lbs
#4(6/1)	swan	885	
#4(7/1)	swanate	600	1768
#2 (6/1)	sparrow	885	1200
#2 (7/1)	sparate	600	1200
#1/0	raven	885	1768
#2/0	quail	885	1768
#4/0	penguin	885	1768
#336	merlin	2079	4157
#477	pelican	2079	4157

### DIRECT BURIAL W/GROUND

size	lbs=ft
#14/3	89#/1000'
#12/3	125#/1000'
#10/3	186#/1000'
#8/3	220#/1000'
#6/3	386#/1000'
#4/3	630#/1000'
#2/3	930#/1000'
#1/0-3	1423#/1000'
#2/0	1718#/1000'
#4/0	2592#/1000'

### OTHER

size	lbs=ft
guy wire	
3/8"	260#/1000'
iron wire	
#9	65#/1000'
aluminum tie wire	
#6	24.2#/1000'
#4	38.4#/1000'
aluminum ribbon	
	17.6#/1000'

Pole Weights and Motor Weights are based on the heaviest scenario of material to assist operators in estimating the weight of their load.

## Weight Reference Guide

### ELECTRIC MOTOR WEIGHTS

3 phase explosion proof motors

Hp	Apx. Wt. (lb)	Voltage	Hp	Apx. Wt. (lb)	Voltage
5	172	480	125	1908	480
7 ½	172	480	150	2048	480
10	370	480	200	2417	480
15	370	480	250	1200	480
20	540	480	300	2959	480
25	740	480	350	4344	480
30	750	480	400	4719	480
40	910	480	450	5248	480
50	950	480	500	5469	480
60	1300	480	600	6340	4060
75	1335	480	1000	5850	4160
100	1335	480			

Pole Weights and Motor Weights are based on the heaviest scenario of material to assist operators in estimating the weight of their load.

### ESTIMATED TREATED SHIPPING WEIGHT OF SOUTHERN YELLOW PINE POLES

	class													
	h-6	h-5	h-4	h-3	h-2	h-1	1	2	3	4	5	6	7	9
	weight (lbs)													
25							777	671	582	512	442	371	318	230
30							1024	901	777	671	582	512	424	318
35						1572	1324	1148	985	865	742	636	548	
40			2702	2419	2136	1942	1642	1430	1236	1077	936	794		
45	3956	3567	3232	2914	2542	2278	1977	1713	1483	1289	1112			
50	4626	4167	3778	3408	2984	2666	2348	2030	1766	1536	1836			
55	5315	4838	4326	3867	3478	3054	2737	2384	2066	1784				
60	6021	5403	4926	4432	3902	3461	3160	2720	2366	2048				
65	6763	6127	5527	4980	4396	3902	3584	3108	2702	2348				
70	7522	6869	6233	5527	4926	4362	4044	3514	3037	2631				
75	8352	7628	6851	6127	5456	4856	4520	3920	3390	2949				
80	9164	8334	7310	6745	6004	5368	5014	4344	3761	3266				
85	10030	9076	8334	7416	6551	5844	5527	4785	4150					
90	10594	9588	8316	8069	6957	6056	6056	5244						

(#)  
length



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