PKS-PRO-E-20 - Servo System

FEATURES

- ***Input Voltage Range of 170-253 VAC***
- ***Rated Torque of 1,352 to 2,704 oz-in***
- ***2.0 kWatt Power Rating***
- ***No Load Speed of up to 1,500 RPM***
- ***2,500 PPR Incremental Encoder***
- ***Enclosed and Self-Cooled***
- ***Oil Seal and Optional Brake***
- ***MODBUS and CANopen Standard***
- ***RS485 Interface***
- ***Real Time Monitoring and Management***
- ***Position, Speed, and Torque Control***
- ***CE Certified***

DESCRIPTION

The PKS-PRO-E-20 servo system includes a 2.0 kWatt EMG or EML AC Servo Motor operated by the PRONET-E drive. These packages are ideal for quick and easy start-ups, convenience and performance! The servo motor included in this package provides torque from 1,352 to 2,704 oz-in. The PRONET-E drives offer current forward-feedback control, acceleration forward-feedback control, speed viewer, and inertia viewer; providing for improved response performance. These drives operate standard with MODBUS and CANopen protocol. Each system includes a 5M power cable, 5M encoder cable, and a 3M communication cable.

System Specs	Rated Speed (RPM)	Rated Torque (oz-in)	Rated Current (A rms)	Inertia (oz-in-sec^2)	Torque Constant KT (oz-in/A)	Resistance (ohms)	Inductance (mH)	Driver Digital Display	Brake (24VDC)	Motor Length (mm)	Shaft Diameter (mm)
PKS-PRO-E-20-A-GP22	2000	1352	12.0	0.2691	130.1	0.3	3.7	Yes	No	210	22
PKS-PRO-E-20-A-GP24	2000	1352	12.0	0.2775	130.1	0.3	3.7	Yes	Yes	264.5	22
PKS-PRO-E-20-A-LP22	1000	2704	12.0	0.7576	236.9	0.56	4.7	Yes	No	253	35
PKS-PRO-E-20-A-LP24	1000	2704	12.0	0.8029	236.9	0.56	4.7	Yes	Yes	322	35

ORDERING INFORMATION

PKS-PRO - E - 20 - A - G P 2 2

Rated Output	
20	2.0 kW

Motor	
G	EMG
L	EML

Option	
2	With Oil Seal
4	With Oil Seal and Brake (DC 24V)

L010958

910 East Orangefair Ln. Anaheim, CA 92801 **Tel. (714) 992-6990** Fax. (714) 992-0471 **www.anaheimautomation.com**

Servo Motor Specifications

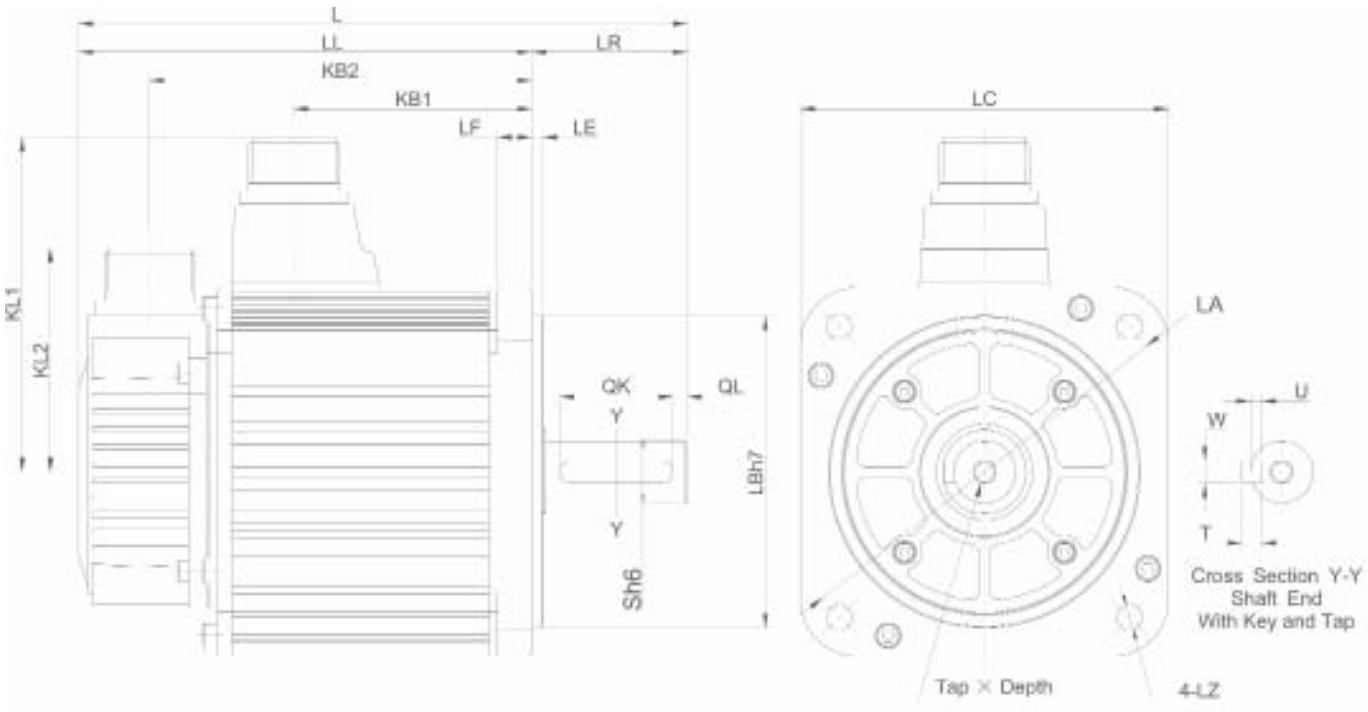
FEATURES

- *Rated Torque of 1,352 to 2,704 oz-in*
- *3-Phase, 200VAC*
- *Rated Power up to 2.0 kWatts*
- *Peak Torque up to 300% of Rated Torque*
- *Peak Current up to 300% of Rated Current*
- *No Load Speed of up to 1,500 RPM*
- *2,500 PPR Incremental Encoder Attached*
- *Enclosed and Self-Cooled*
- *Neodymium-Iron-Boron Magnets (NdFeB)*
- *CE Certified*

SPECS

Model #	Rated Torque (oz-in)	Rated Power (Watts)	Rated Speed (RPM)	Rated Current (A rms)	Brake (24VDC)	Inertia (oz-in-sec^2)	Electric Time Constant T_E (ms)	Back EMF Voltage K_E (V/krpm)	Torque Constant K_T (oz-in/A)	Resistance (ohms)	Weight (lbs)
EMG-20APA22	1352	2000	2000	12.0	No	0.2691	13.00	61.0	130.1	0.3	27.56
EMG-20APA24	1352	2000	2000	12.0	Yes	0.2775	13.00	61.0	130.1	0.3	27.56
EML-20APA22	2704	2000	1000	12.0	No	0.7576	15.36	109	236.9	0.56	55.12
EML-20APA24	2704	2000	1000	12.0	Yes	0.8029	15.36	109	236.9	0.56	55.12

DIMENSIONS



Note: All Dimensions in (mm)

MODEL #	L	LL	KB1	KB2	KL1	KL2	FLANGE SLIDE							S	TapxDepth	KEY				
							LR	LE	LF	LC	LA	LB	LZ			QK	QL	W	T	U
EMG-20APA22	265	210	134	185	118	79	55	4	12	130	145	110	9	22	M6x20L	40	5	8	7	4
EMG-20APA24	319.5	264.5	134	239.5	118	79	55	4	12	130	145	110	9	22	M6x20L	40	5	8	7	4
EML-20APA22	332	253	168	228	140	79	79	3.2	18	180	200	114.3	13.5	35	M8x16L	55	6	10	8	5
EML-20APA24	401	322	168	245	140	79	79	3.2	18	180	200	114.3	13.5	35	M8x16L	55	6	10	8	5

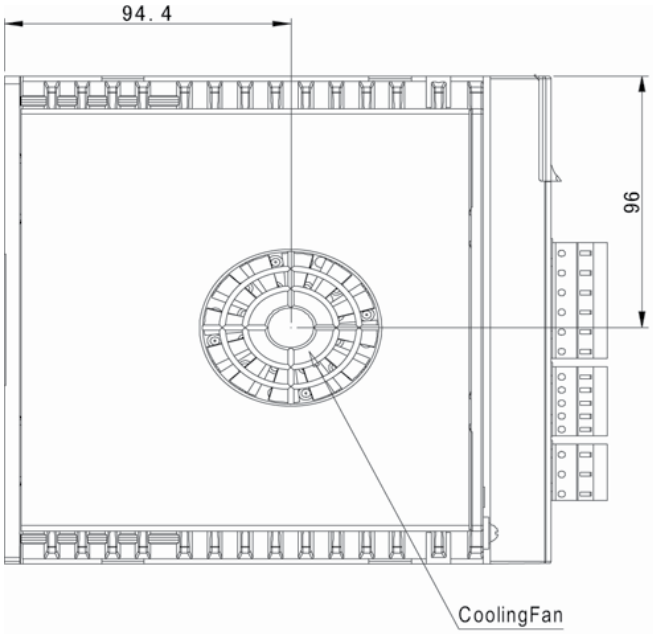
910 East Orangefair Ln. Anaheim, CA 92801 **Tel. (714) 992-6990** Fax. (714) 992-0471 **www.anaheimautomation.com**

PRO-E-20 - Driver Specifications

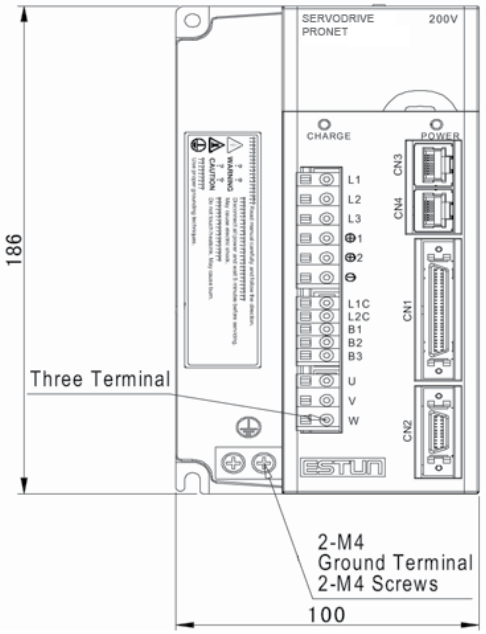
FEATURES

- *Input Voltage Range of 170-253 VAC*
- *Rated Power up to 2.0 kWatts*
- *Improved Responsiveness Performance*
- *Enhanced Position Precision*
- *Low Speed Stability*
- *Enables Less Debugging*
- *MODBUS and CANopen Standard*
- *RS485 Interface*
- *Position, Speed, and Torque Control*
- *Homing Function*

ProNet DIMENSIONS

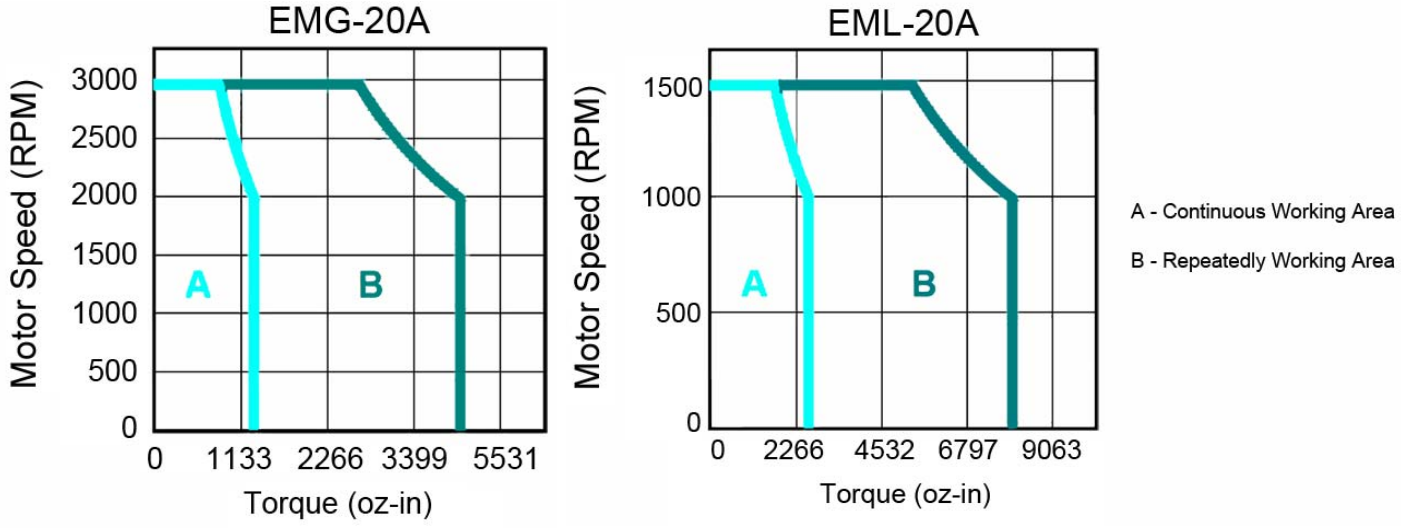


Dimensions are in millimeters (mm)



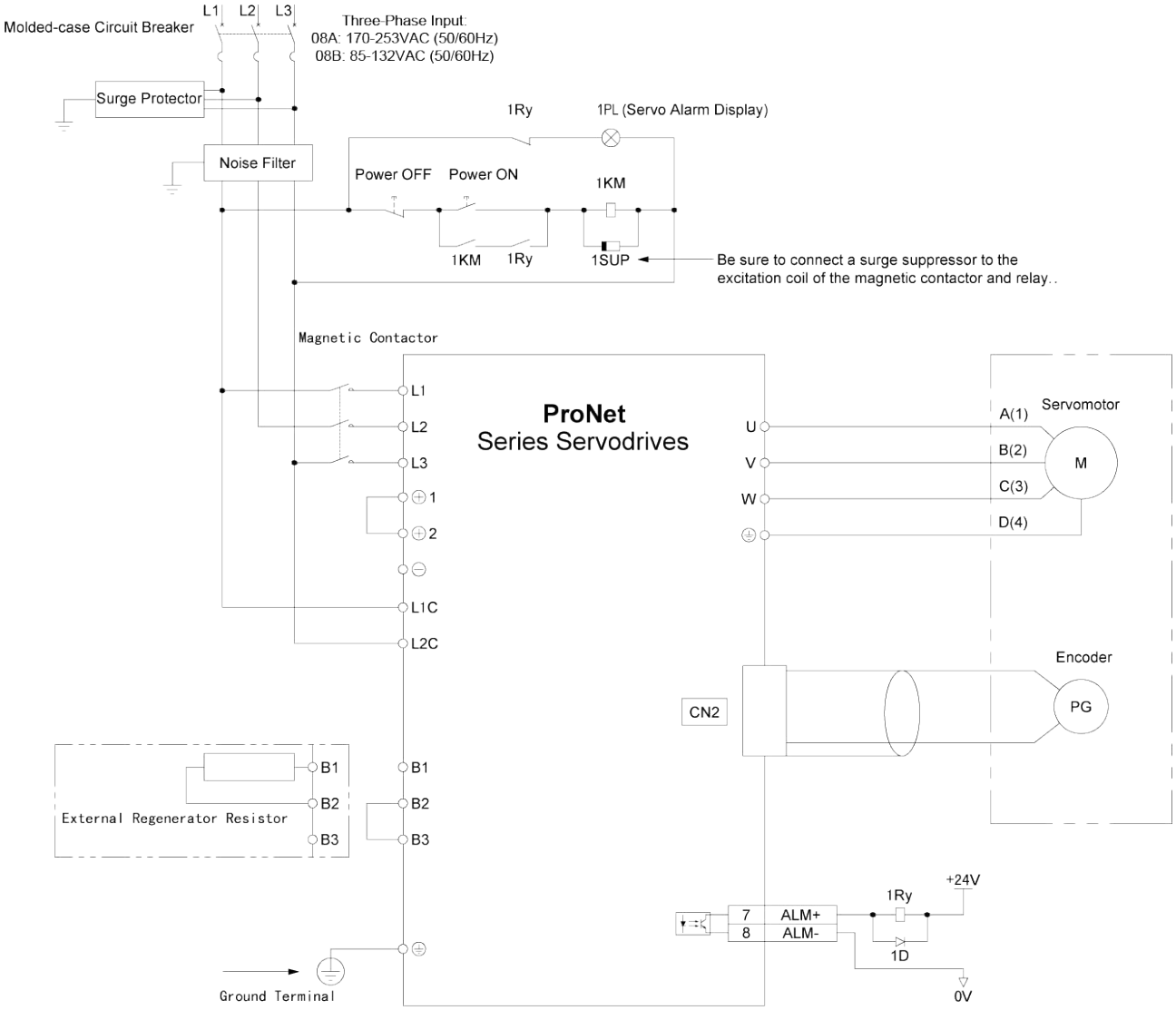
Dimensions are in millimeters (mm)

TORQUE CURVE



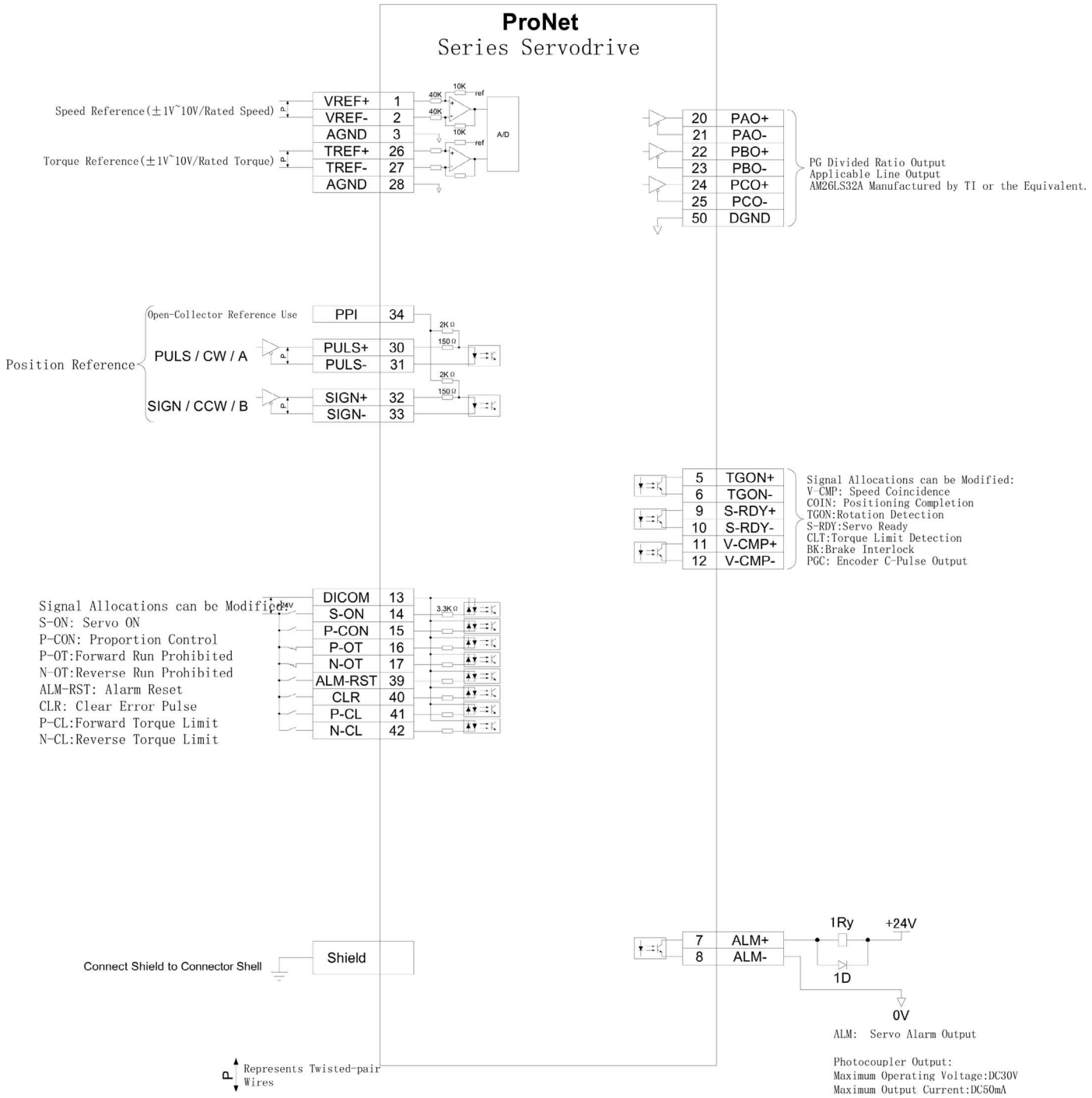
910 East Orangefair Ln. Anaheim, CA 92801 **Tel. (714) 992-6990** Fax. (714) 992-0471 **www.anaheimautomation.com**

MAIN CIRCUIT DIAGRAM



Note: The Surge Protector, Noise Filter, Magnetic Contactor, and the Regenerative Resisotr are Optional.

I/O SIGNAL CONNECTION



Compatible Drivers

Part Number	Description
PRONET-E-20A	Servo Driver

Compatible Motors

Part Number	Description
EMG-20APA22	Servo Motor
EMG-20APA24	Servo Motor
EML-20APA22	Servo Motor
EML-20APA24	Servo Motor

Compatible Cables

Part Number	Description
PDM-GA14-05	Power Cable
BMP-GA24-05	Encoder Cable
PRONET-PSC-CC24-02	Comm. Cable