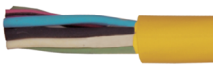
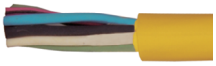
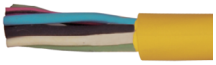
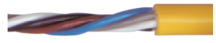
TPE *flexlife-20*® (S101)

flexlife-20, our latest innovation in high-flex cable, guarantees performance to 10 million cycles of continuous flexing, bending and twisting motion found in C-track, robotic and other motion systems. Our standard ***flexlife*** PVC and PUR control cables are designed to meet a minimum of 2 million flex cycles, but are often in use 7 to 8 million flex cycles and years later.

The ***flexlife-20*** design includes finely stranded custom alloy conductors, and proprietary blended thermoplastic insulation and cable jacket compounds. A flex facilitator made of Teflon is wrapped around the conductors, preventing heat build-up due to friction between the cable jacket and conductors during the flex cycle. See our ***flexlife-20*** brochure (B0422) for more information.

TPE FL-20 Cable	No. of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Cond. Colors	Shield	UL	CSA	Type	MSHA	Temp. (°C)
	3	18	7.2 mm OD, TPE, YE, 600 V	RF51173-30M RF51173-100M RF51173-200M	6 19 37	BN, BU, GN/YE		•	•	AWM 21002		105° -60°
	3	20	5.7 mm OD, TPE, GY, FL-20, 600 V	RF50940-30M RF50940-100M RF50940-200M	3 10 20	BN, BU, BK		•	•	AWM 21002		105° -60°
	4	18	7.2 mm OD, TPE, YE, FL-20, 600 V	RF50968-30M RF50968-100M RF50968-200M	6 19 37	BK, BU, WH, BN		•	•	AWM 21002		105° -60°
	4	22	5.7 mm OD, TPE, GY, FL-20, 600 V	RF50941-30M RF50941-100M RF50941-200M	3 10 20	BN, WH, BU, BK		•	•	AWM 21002		105° -60°
	5	18	7.2 mm OD, TPE, YE, 600 V	RF51174-30M RF51174-100M RF51174-200M	6 20 39	BK, BU, GN/YE, BN, WH		•	•	AWM 21002		105° -60°
	5	22	5.7 mm OD, TPE, GY, FL-20, 600 V	RF50909-30M RF50909-100M RF50909-200M	3 10 20	GY, BN, WH, BU, BK		•	•	AWM 21002		105° -60°
	6	16	8.5 mm OD, TPE, YE, 600 V	RF51044-30M RF51044-100M RF51044-200M	8 38 76	BK, WH, RD, OG, BU, GN		•	•	AWM 21002		105° -60°
	6	24	5.7 mm OD, TPE, GY, FL-20, 600 V	RF50910-30M RF50910-100M RF50910-200M	3 10 19	GY, BN, WH, PK, BU, BK		•	•	AWM 21002		105° -60°
	6	24	5.7 mm OD, TPE, BK, FL-20, 600 V	RF51111-30M RF51111-100M RF51111-200M	3 10 20	GN, YE, GY, BN, BU, WH		•	•	AWM 21002		105° -60°
	7	16	9.6 mm OD, TPE, YE, FL-20 600 V	RF51049-30M RF51049-100M RF51049-200M	10 40 80	BK, WH, RD, OG, GN, BU, WH/BK		•	•	AWM 21002		105° -60°
	7	18	8.4 mm OD, TPE, YE, 600 V	RF51149-30M RF51149-100M RF51149-200M	9 39 78	BK, WH, RD, OG, BU, GN, WH/BK		•	•	AWM 21002		105° -60°
	8	16	9.6 mm OD, TPE, YE, 600 V	RF51050-30M RF51050-100M RF51050-200M	10 40 80	RD, GN, OG, BU, WH/BK, BK, RD/BK, WH		•	•	AWM 21002		105° -60°
	8	24	5.7 mm OD, TPE, GY, FL-20, 600 V	RF50911-30M RF50911-100M RF50911-200M	4 11 21	BU, WH, BN, GN, YE, GY, PK, RD		•	•	AWM 21002		105° -60°
	9	16	10.5 mm OD, TPE, YE, FL-20 600 V	RF51051-30M RF51051-100M RF51051-200M	10 40 80	BU, RD/BK, GN/BK, WH, RD, GN, BK, WH/BK, OG		•	•	AWM 21002		105° -60°
	10	16	10.5 mm OD, TPE, YE, 600 V	RF51052-30M RF51052-100M RF51052-200M	11 41 82	OG/BK, RD, GN, OG, BU, WH/BK, RD/BK GN/BK, BK, WH		•	•	AWM 21002		105° -60°
	10	24	7.0 mm OD, TPE, BK, FL-10, 600 V	RF50954-30M RF50954-100M RF50954-200M	5 15 30	GN, GY, VT, YE, BK, WH, RD, BN, PK, BU		•	•	AWM 21002		105° -60°
	10	24	7.0 mm OD, TPE, BK, FL-20, 600 V	RF51077-30M RF51077-100M RF51077-200M	5 15 30	GN, GY, OG, YE, TN, WH, RD, BN, PK, BU		•	•	AWM 21002		105° -60°

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TPE FL-20 Cable	No. of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Cond. Colors	Shield	UL	CSA	Type	MSHA	Temp. (°C)
	12	16	11.2 mm OD,TPE, YE,600 V	RF51148-30M RF51148-100M RF51148-200M	134 385	OG, BU, WH/BK, RD/BK, GN/BK, OG/BK, BU/BK, BK/WH, GN, WH, RD, BK		•	•	AWM 21002		105° -60°
	12	18	9.3 mm OD, TPE, YE, FL-20, 600 V	RF50915-30M RF50915-100M RF50915-200M	13 43 85	BU/WH, GN/YE, BN, BU, WH, OG, YE, GN/WH, BN/WH, GY, PK, RD		•	•	AWM 21002		105° -50°
	12	22	7.6 mm OD, TPE, BK, FL-20, 600 V	RF50999-30M RF50999-100M RF50999-200M	6 19 38	RD, PK, YE, GN, WH, BU, BN, OG, BK, GY, TN, VT		•	•	AWM 21002		105° -60°
	12	24	7 mm OD, TPE, BK, FL-20, 600 V	RF50943-30M RF50943-100M RF50943-200M	5 16 31	RD, GN, OG, TN, GY, VT, YE, BK, WH, BN, BU, PK		•	•	AWM 21002		105° -60°
	14	22	7.6 mm OD, TPE, BK, FL-20, 600 V	RF51000-30M RF51000-100M RF51000-200M	6 20 40	BN, OG, TN, BU, GN, PK, RD, WH, BK, RD/BU, GY/BN, YE, GY, VT		•	•	AWM 21002		80° -60°
	19	18 22	9.3 mm OD, TPE, YE, FL-20, 600 V	RF50916-30M RF50916-100M RF50916-200M	12 38 75	(22 = WH, GN, YE, GY, PK, RD, BK, VT, GY/PK, RD/BU, WH/GN, BN/GN, WH/YE, YE/BN, WH/GY, GY/BN), (18 = BN, BU, GN/YE)		•	•	AWM 21002		105° -60°
	19	22	8.5 mm OD, TPE, BK, FL-20, 600 V	RF50997-30M RF50997-100M RF50997-200M	8 26 52	BN, TN, BU, YE/BN, GN, WH/YE, PK, BN,GN, BK, WH/GN, RD/BU, GY/PK, OG, GY, RD, WH, VT, GY/BN, YE		•	•	AWM 21002		105° -60°

Super Cable (S529)

This TURCK developed cable construction is unique in the industry. PVC insulated inner conductors of high-flex stranding are sheathed in an oil-resistant PVC inner jacket, over which a braided copper shield is applied. An outer jacket of PUR (Polyurethane) is then applied to the cable.

This cable was developed for the machine tool and material handling industry as a solution to problems experienced with the high degree of abrasion, cut through and attack by cutting fluids found in those industries.

Advantages gained from this design include:

- High flexibility and strength in a relatively small cross section.
- Highly resistant to abrasion, cutting and crushing.
- Highly resistant to fluids that may otherwise cause failure due to embrittlement or softening in the presence of cutting fluids, oils, gasoline and other petroleum-based fluids.
- Circular cross section of inner core and braid allows for easier stripping in the field.

Super S529 Cable	No. Of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Cond. Colors	Shield	UL	CSA	Type	MSHA	Temp. (°C)
	3	20	5.2 mm OD, PVC/PUR, YE, 300 V	RF50832-30M RF50832-100M RF50832-200M	4 11 21	BN, BU, BK	Braid					105° -60°
	4	20	5.8 mm OD, PUR/PVC, YE, 300 V	RF50526-30M RF50526-100M RF50526-200M	4 13 26	BN, WH, BU, BK	Braid					105° -60°
	6	24	6.3 mm OD, PVC/PUR, YE, 300 V	RF51120-30M RF51120-100M RF51120-200M	5 14 28	BN, WH, PK, BU, BK, GY	Braid					105° -60°

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