

TECHNICAL DATA SHEET - INTERACTIVE PDF

# Electrical non-metallic tubing

## Flex-Plus® (ENT) system

**Carlon®**



### Features:

- Sizes ½" through 2"
- Colors can designate different voltages  
Examples:
  - Blue color for power circuits
  - Yellow color for communication circuits and signaling cable
  - Red color for fire alarm and emergency systems
- Free from sharp edges allowing easy wire pulling
- Light weight and hand bendable allowing easy installation and saving labor hours
- Outside diameters meet IPS dimensions.
- For use in walls, floors and non-plenum ceilings.
- For use in buildings in accordance with NEC Article 362
- Suitable for use in 1-hour and 2-hour fire resistive non-load bearing wall assemblies and fire resistive ceiling assemblies up to 3 hours.\*

\* When installed per third-party assessment prepared by BEAR Engineering for use in fire-resistance rated walls and floor/ceiling assemblies.

[Click here](#) or scan QR code below.



PVC electrical non-metallic tubing for use in walls, floors and non-plenum ceilings

### Certifications / Standards:



[3-Part Specification: 26\\_05\\_33.03](#)

[Tools and Calculators](#)

### Conforms to:

- UL 1653
- CSA C22.2 No. 227.1

### Applications:

- For use in walls, floors and non-plenum ceilings.
- For use in buildings in accordance with NEC Article 362

### Material / Finishes:

- PVC

### Ratings:

- Rated for 90°C conductors maximum.
- Maximum ambient temperature 140° F (60°C).\*
- Minimum installation and storage temperature -20°C(-4°F).

\* It is suggested that all ENT products not be stored outside. Section 362.12 of the NEC prohibits ENT to be used in areas exposed to direct sunlight.

### Table data:

- [Standard stocks](#)
- [Dimensions](#)

### Standard stock - Reels

Product selection and dimensions - inches								
Part no.	Tubing size	Color	Pull tape	Reel size (F x W)	Reel type W = wood	Reel length	Reel weight (lbs)	Weight per 100 ft (lbs)
12005AK-001	½	Blue	Empty	36 x 24	W	1500	40	10
1205AKY-001	½	Yellow	Empty	36 x 24	W	1500	40	10
1205AKR-001	½	Red	Empty	36 x 24	W	1500	40	10
12007AA-001	¾	Blue	Empty	36 x 24	W	1000	40	14
1207AAY-001	¾	Yellow	Empty	36 x 24	W	1000	40	14
1207AAR-001	¾	Red	Empty	36 x 24	W	1000	40	14
12008-750	1	Blue	Empty	36 x 24	W	750	40	20
12008Y-750	1	Yellow	Empty	36 x 24	W	750	40	20
12008R-750	1	Red	Empty	36 x 24	W	750	40	20
12009-750	1¼	Blue	Empty	48 x 32	W	750	90	19
12010-750	1½	Blue	Empty	48 x 32	W	750	90	39
12010Y-750	1½	Yellow	Empty	48 x 32	W	750	90	39
12011-500	2	Blue	Empty	48 x 32	W	500	90	32
12011R-500	2	Red	Empty	48 x 32	W	500	90	32
12011Y-500	2	Yellow	Empty	48 x 32	W	500	90	32

Note: Product must be installed in accordance with applicable national and local electrical codes. 1¼"-2" available in yellow and red, made to order, consult factory.

### Standard stock - Coils

Product selection and dimensions - inches					
Part no.	Tubing size	Color	Pull tape	Coil length (ft)	Weight per 100 ft (lbs)
12005-200	½	Blue	Empty	200	10
12005Y-200	½	Yellow	Empty	200	10
12005R-200	½	Red	Empty	200	10
12007-100	¾	Blue	Empty	100	14
12007Y-100	¾	Yellow	Empty	100	14
12007R-100	¾	Red	Empty	100	14
12008-100	1	Blue	Empty	100	22
12008Y-100	1	Yellow	Empty	100	22
12008R-100	1	Red	Empty	100	22

Note: Product must be installed in accordance with applicable national and local electrical codes.

### Standard stock - 10-ft lengths

Product selection - inches			
Part no.	Tubing size	Color	Weight (lbs)
12005-UPC	½	Blue	1.02
12007-UPC	¾	Blue	1.46
12008-010	1	Blue	2.96

Note: Product must be installed in accordance with applicable national and local electrical codes.



## Electrical non-metallic tubing (ENT)

### Product selection and dimensions - Inches

Part no.	Tubing size	O.D.			O.D. Ovality		I.D.		Thickness over convolutions		Convolutions per foot (±2)	Min. bend radius
		Nom	Min	Max	Min	Max	Nom	Min	Min	Max		
1205AK-001	½	0.840	0.836	0.848	0.832	0.850	0.56	0.574	0.123	0.143	86	6
1207AA-001	¾	1.050	1.046	1.058	1.040	1.060	0.76	0.774	0.128	0.148	88	6
12008-750	1	1.315	1.310	1.323	1.305	1.325	1.00	1.000	0.148	0.168	90	6
12009-750	1¼	1.660	1.655	1.665	1.648	1.672	1.402	1.340	0.148	0.168	66	7
12009-500	1¼	1.660	1.655	1.665	1.648	1.672	1.402	1.340	0.148	0.168	66	7
12010-750	1½	1.900	1.894	1.906	1.888	1.912	1.550	1.570	0.155	0.175	66	8¼
12011-500	2	2.375	2.369	2.381	2.363	2.387	2.030	2.020	0.168	0.188	64	9½
12011-225	2	2.375	2.369	2.381	2.363	2.387	2.030	2.020	0.168	0.188	64	9½
12005-200	½	0.840	0.836	0.848	0.832	0.850	0.560	0.574	0.123	0.143	86	6
12005-370	½	0.840	0.836	0.848	0.832	0.850	0.560	0.574	0.123	0.143	86	6
12007-100	¾	1.050	1.046	1.058	1.040	1.060	0.760	0.774	0.128	0.148	88	6
12007-240	¾	1.050	1.046	1.058	1.040	1.060	0.760	0.774	0.128	0.148	88	6
12008-160	1	1.315	1.310	1.323	1.305	1.325	1.000	1.000	0.148	0.168	90	6
12009-500C	1¼	1.660	1.655	1.665	1.648	1.672	1.402	1.340	0.148	0.168	66	7
12010-300C	1½	1.900	1.894	1.906	1.888	1.912	1.554	1.570	0.155	0.175	66	8¼
12011-225C	2	2.375	2.369	2.381	2.363	2.387	2.030	2.020	0.168	0.188	64	9½
12005-010	½	0.840	0.836	0.848	0.832	0.850	0.560	0.574	0.123	0.143	86	6
12007-010	¾	1.050	1.046	1.058	1.040	1.060	0.760	0.774	0.128	0.148	88	6
12008-010	1	1.315	1.310	1.323	1.305	1.325	1.000	1.000	0.148	0.168	90	6
12008-025	1	1.315	1.310	1.323	1.305	1.325	1.000	1.000	0.148	0.168	90	6

Note: Product must be installed in accordance with applicable national and local electrical codes.

